

# **2025**

# **Public Safety**

## **Needs Assessment**

## **Supplemental Information**

Prepared by the:



**City of Fresno**  
**Fire Department**

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## EXECUTIVE SUMMARY

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### **BACKGROUND**

The 2025 Fresno General Plan provides a substantially revised and updated strategy to address current issues and deficiencies, reinforce existing community assets, and improve the quality of life of the community as a whole. The Plan is intended to serve as a guide to enable government (at all levels), community groups and private enterprise to make quality decisions in respect to service delivery in the future. Strategic use of community resources in a manner that will advance progress toward a common vision is an intricate part of the 2025 General Plan.

In response to the 2025 Fresno General Plan both the Police Department and the Fire Department were asked to assess not only their present needs but also their future needs. The 2025 Public Safety Needs Assessment Report for the Fire Department details the Department's preliminary findings which address the General Plan's purpose and vision.

### **PURPOSE OF REPORT**

This document, the 2025 Public Safety Needs Assessment Supplemental Information report, provides the Public Safety Commission and policy makers with additional information on each of the needs identified in the Public Safety Needs Assessment Preliminary Findings report. The information will assist the Public Safety Commission and the policy makers in determining the significance of the request as well as its priority in meeting the goals and objectives of the 2025 General Plan.

Subsequent to the preparation of the report, the Department has been in discussions with other public safety agencies regarding cooperative efforts to reduce long-term cost and enhance effectiveness of Public Safety service delivery. These discussions are ongoing and could result in operational efficiencies as well as a cost reduction for services provided which may change the Department's future request. For now, the Department is still pursuing funding under the current organizational plan, therefore, this report does not include any potential program changes, alternative deployment plans or potential cost savings from such cooperative efforts.

### **MAJOR SERVICE ENHANCEMENT**

On the following page is a summary of the major service enhancements and projected costs as defined by the Fire Department's Public Safety Needs Assessment Preliminary Findings report.

**Cost In Priority:****Millions****Immediate**

• Build Station 15 (Southeast Fresno)	2.7
• Add a 4 <sup>th</sup> person to every truck company (Cost includes personnel and equipment)	1.4
• Install two transmitters for communications	3.0
• Replace outdated apparatus	5.6
• Add six Rapid Response-2 person Rescue Units	4.7
• Make improvements to fire stations	4.5
• Staffing for Station 15	1.7
• Construct a new Fire Headquarters	4.6
• Construct a new Training and Fire Shop Facility	6.0
• Install power generators at stations	1.2

**2006 - 2010**

• Replace outdated apparatus	5.2
• Add a 4 <sup>th</sup> person to every engine company	4.4
• Add two new truck companies (Cost includes staffing, equipment, apparatus)	4.4
• Add two 6-person Rescue companies	4.6
• Construct Station 18 (Southwest Fresno) and relocate Station 16 (West Fresno)	7.1
• Staffing for Station 18	2.0

**2011-2015**

• Construct Station 17 (Northwest Fresno)	3.9
• Staffing for Station 17	2.2
• Construct Station 19 (South Fresno)	4.2
• Replace outdated apparatus	5.0

**2016 - 2020**

• Staffing for Station 19	5.2
• Replace outdated apparatus	12.1
• Construct Station 20 (Southeast Fresno)	4.6
• Staffing for Station 20	2.6

**2021 - 2025**

• Replace three aerial trucks	4.4
• Replace one HazMat vehicle	1.0
• Replace Rapid Response Units	1.8

**PROJECTED OPERATING BUDGET**

The selected major service enhancements listed on page 2 as well as the remaining enhancements described in the Supplemental Information section of this report on page 23 will have a cumulative impact on the Department's operating budget. The following table shows the anticipated increase in the budget by each fiscal year end beginning with Immediate Needs through 2025.

<b>Fiscal Year End</b>	<b>Projected Operating Budget</b>
<b>Immediate Needs</b>	<b>39,694,738</b>
<b>2007</b>	<b>51,534,094</b>
<b>2009</b>	<b>55,794,477</b>
<b>2010</b>	<b>62,975,899</b>
<b>2012</b>	<b>66,825,802</b>
<b>2014</b>	<b>72,760,082</b>
<b>2015</b>	<b>74,965,623</b>
<b>2017</b>	<b>83,157,176</b>
<b>2019</b>	<b>90,537,630</b>
<b>2020</b>	<b>93,153,736</b>
<b>2022</b>	<b>98,765,573</b>
<b>2024</b>	<b>105,094,072</b>
<b>2025</b>	<b>108,294,708</b>

## APPARATUS REPLACEMENT SUMMARY

An integral component of providing service to the community is to have light vehicles and apparatus (engines, aerial ladder trucks, and specialty vehicles) that are within their useful lives as front-line vehicles. The following table summarizes the vehicles used in fire fighting activities as either front-line or reserve, and whether they should be replaced based on the Department's present Apparatus Replacement Program.

### Vehicle Summary

	(A)	(B)	(C)	(D)	
	Within	Frontline	Within	Should Be	Total
Description	Frontline Life	Should Be In Reserve	Reserve Life	Replaced	Vehicles
Light Vehicles	0	N/A	N/A	2	2
Engines	10	6	0	5	21
Hazmat Vehicles	1	1	N/A	0	2
Ladder Trucks	5	0	1	1	7
Water Tenders	0	1	0	1	2
<b>Totals</b>	<b>16</b>	<b>8</b>	<b>1</b>	<b>9</b>	<b>34</b>

Due to budget constraints, the replacement of apparatus and specialty vehicles is determined each fiscal year based on the funding available. As a result, nine of the apparatus should be replaced immediately (category D). Eight of the apparatus currently in front line service should be used as reserve only, they are in the last five years of their useful life (category B). The remaining 17 apparatus will need replacement by 2025. It should be noted that approval was received in fiscal years 2003 and 2004 to replace five of the nine apparatus in category D including an aerial ladder truck, three engines and a water tender.

## **PEER COMPARISON**

In order to obtain an overall picture of the Department, a comparison of various key fire industry indicators was done with Fresno's established peer cities. The comparison also includes the salary survey requested by the Commission

The comparison shows that in virtually every category, the Department compares negatively to the average of the peer cities. Of particular note is the per capita expenditure and firefighter per 1,000 population. The per capital expenditure is \$66 for Fresno as compared to the peer city average of \$130. Even with the funding of the Department's Immediate Needs as outlined in the Public Safety Needs Assessment Preliminary Findings report, the Department's operating budget will still be \$8.2 million below the peer cities average of \$47.9 million.

The number of firefighters per 1,000 population for Fresno is .59 as compared to the peer city average of .86. Response times for Fresno are longer at 5 minutes 30 seconds 65 percent of the time compared to the average of 5 minutes 8 seconds 90 percent of the time. This is a result of several factors including but not limited to:

- Fresno has a service area of 105 square miles as compared to 80 square miles and less companies (21) as compared to the average of 27, and
- Sworn personnel at 263 is also below the average of 314.

The comparison will continue to be updated and used as improvements are made within the Department as requested.

## **CONCLUSION**

Through the Public Safety Needs Assessment Preliminary Findings report, the Department identified the resources that must be obtained to provide adequate service to the community through the year 2025. In addition, various studies of the Department, three of which were performed by outside organizations, were conducted during the last five years such as the Mayor's Council of Economic Advisors Task Force Report, Macias Consulting Group Final Report, Fresno County Grand Jury Final Report, and the peer review comparison completed by the Department lend further support to the Department's need to rebuild.

## PEER REVIEW COMPARISON

One useful tool for assessing the status of the Department is a comparison to other departments in peer cities. The following information compares Fresno to our established peer cities.

This comparison provides key information for various fire industry indicators. The information was not adjusted for differences in department size, location, economic, or other demographics.

### Fire Department Peer City Comparisons

Peer City	Sworn Firefighting Personnel	Civilian Staff	Daily On-Duty Battalion Chiefs	Daily On-duty Firefighting Personnel	Population	FF/1,000 Population	Staffing/ Apparatus
Anaheim	222	66	2	70	328,014	0.67	E/T: 4
Bakersfield	171	15	2	51	247,057	0.69	E:3 T:4
Long Beach	493	50	3	138	500,000	0.98	E:4 T:5
Oakland	506	81	3	99	403,000	1.25	E/T: 4
Riverside	197	26	2	67	265,000	0.74	E:3-4 T:3*
Sacramento	434	48	3	145	463,760	1.08	E/T: 4*
Santa Ana	250	30	2	67	343,700	0.72	E: 4 T: 3
Stockton	240	79	2	67	300,000	0.8	E:3 T:4
<b>Comparative Average</b>	<b>314</b>	<b>49</b>	<b>2.3</b>	<b>88</b>	<b>356,316</b>	<b>0.86</b>	<b>E/T: 3.78</b>
<b>Fresno</b>	<b>263</b>	<b>30</b>	<b>2</b>	<b>67</b>	<b>441,900</b>	<b>0.59</b>	<b>E/T: 3</b>

**Riverside: Staffing per Unit:** Transport units (3) are assigned 2 personnel

**Sacramento: Staffing per Unit:** Transport units (13) are assigned 2 personnel



## Peer City Comparisons Continued

Peer City	Stations	Fire Calls	Medical Calls	Other Service Calls	Total Calls 2002	Average Response Time	Square Miles
Anaheim	11	1,200	21,400	3,803	26,403	4:59	50
Bakersfield	12	1,278	10,008	7,724	19,700	6:00	118
Long Beach	23	5,653	35,956	12,827	54,436	3:30	72 *
Oakland	26	11,941	41,844	13,398	67,183	5:45	55
Riverside	13	3,132	18,521	2,883	24,536	6:35	88
Sacramento	23	3,623	41,030	17,415	62,048	4:54	144
Santa Ana	10	714	12,873	4,230	17,817	5:00	28
Stockton	12	2,289	19,858	10,317	32,464	4:00	90
<b>Comparative Average</b>	<b>16.2</b>	<b>3,728</b>	<b>25,186*</b>	<b>9,074</b>	<b>38,073</b>	<b>5:08</b>	<b>80</b>
<b>Fresno</b>	<b>16</b>	<b>2,422</b>	<b>19,050</b>	<b>8,135</b>	<b>29,607</b>	<b>5:30</b>	<b>105</b>

\* **Comparative Average for Medical Calls:** 4 out of 8 peer cities transport, which greatly increases the call volume

**Long Beach: Square Miles:** 72 miles includes 22 miles of waterways

## Peer City Comparisons Continued

Peer City	Engines	Trucks	Squads	HazMat	Rescue	Total units available daily
Anaheim	12	5	2	Yes	Yes	19
Bakersfield	12	2	4	Yes	No	18
Long Beach	23*	4	11	No	Yes	38
Oakland	23	7	2	Yes	Yes	32
Riverside	13	3	3	Yes	Yes	19
Sacramento	22	8	15 *	Yes	Yes	45 *
Santa Ana	10	3	7 *	Yes	Yes	20
Stockton	12	3	10	Yes	Yes	25
<b>Comparative Average</b>	<b>16</b>	<b>4.3</b>	<b>6.7</b>	<b>Majority Yes</b>	<b>Majority Yes</b>	<b>27</b>
<b>Fresno</b>	<b>16</b>	<b>5</b>	<b>0</b>	<b>Yes</b>	<b>Yes</b>	<b>21</b>

\* Long Beach: Engines: 23 includes 3 crash rescue apparatus

\* Santa Ana : Squads: 7 includes 6 transport ambulances

\* Sacramento: Squads: 15 includes 13 transport ambulances and 2 boats

\* Sacramento: Total Units Available: 45 includes 2 boats

## Peer City Comparisons Continued

Peer City	FD Budget (Millions)	Per Capita Fire Loss	Per Capita Expenditures	% Sworn Staff	% Civilian Staff	# of Upper Management Chiefs
Anaheim	\$42	\$32.80	\$128	77%	22.90%	3
Bakersfield	\$24	\$19.49	\$97	91%	8%	4
Long Beach	\$68.90	\$12.68	\$138	90%	9.20%	6
Oakland	\$87	\$34.18	\$215	86%	13.70%	7
Riverside	\$32	\$13.06	\$121	88%	11.60%	7
Sacramento	\$60.00	\$27.52	\$129	90%	9.90%	5
Santa Ana	\$37.50	\$8.72	\$109	89%	9.30%	4
Stockton	\$32	\$16.70	\$107	75%	25%	7
<b>Comparative Average</b>	<b>\$47.90</b>	<b>\$20.64</b>	<b>\$130</b>	<b>85%</b>	<b>13.70%</b>	<b>5.3</b>
<b>Fresno</b>	<b>\$29</b>	<b>\$40.29</b>	<b>\$66</b>	<b>89%</b>	<b>9.70%</b>	<b>3</b>

## Peer City Comparisons Continued

Peer City	Total Prevention Staff	% Prev. Staff per 1,000	Number of Inspections / Inspector	E/T Company Inspections 2002	Prev. Div. Insp. 2002	Total Training Staff	Training Staff to FF Ratio
Anaheim	15	0.05%	45	10,320	680	3	1 to 74
Bakersfield	11	0.04%	135	2,809	1,488	3	1 to 54
Long Beach	25	0.05%	N/A	R1 & E1 only*	N/A	5	1 to 98
Oakland	30	0.07%	95	13,000	2,844	6	1 to 84
Riverside	10	0.03%	157	5,624	1,099	3	1 to 65
Sacramento	22	0.04%	196	8,666	4,333	7	1 to 62
Santa Ana	9	0.02%	128	5,000	1,150	5	1 to 50
Stockton	12	0.04%	152	4,000	1,818	4	1 to 60
<b>Comparative Average</b>	<b>16.75</b>	<b>0.04%</b>	<b>129.7</b>	<b>7,059</b>	<b>1,916</b>	<b>4.5</b>	<b>1 to 68</b>
<b>Fresno</b>	<b>10</b>	<b>0.02%</b>	<b>400</b>	<b>8,000</b>	<b>4,000</b>	<b>3</b>	<b>1 to 87</b>

**Long Beach: E/T Company Inspections:** Only R1 & E1 occupancies are inspected

## Peer City Comparisons Continued

Peer City	In-house Apparatus Maintenance	In-house Mechanics	Airport Stations	Fire Dept. Hydrant Maint.	Paramedics	EMT-II	EMT-I	Transport
Anaheim	No	None	No *	No	Yes	No	Yes	No
Bakersfield	No	None	No	Yes	No	No	Yes	No
Long Beach	No	None	Yes	Yes	Yes	No	Yes	Yes
Oakland	No	None	Yes	No	Yes	No	Yes	No
Riverside	No	None	No *	No	Yes	Yes	No	No
Sacramento	No	None	No	No	Yes	No	Yes	Yes
Santa Ana	No	None	No	No	Yes	No	Yes	Yes
Stockton	No	None	No	Yes	Yes	No	Yes	Yes
Comparative Average	Majority No	Majority None	Majority No	Majority No	Majority Yes	Majority No	Majority Yes	Split 50/50
<b>Fresno</b>	<b>Yes</b>	<b>5</b>	<b>No</b>	<b>Yes</b>	<b>No</b>	<b>No</b>	<b>Yes</b>	<b>No</b>

\*Anaheim and Riverside Fire Departs:  
**Airport Stations:** These cities do not have airports

## Peer City Comparisons Continued

Peer City	Annual Salary						
	Firefighter Salary	Engineer Salary	Captain Salary	Battalion Chief Salary	Assistant Salary	Deputy Chief Salary	Fire Chief Salary
Anaheim	46,446 - 65,345	70,033 - 79,040	82,904 - 91,395	95,427 - 131,212	N/A	112,119 - 154,163	118,557 - 177,837
Bakersfield	49,518 - 54,632	49,518 - 60,342	59,171 - 72,092	71,970 - 87,482	N/A	91,877 - 111,687	105,528 - 126,275
Long Beach	46,008 - 57,060	55,908 - 69,528	68,052 - 84,589	79,548 - 98,208	107,208 - 127,228	118,208 - 138,208	137,000 - 157,000
Oakland	64,360 - 93,151	92,213 - 97,141	98,655 - 106,657	128,285	161,652	138,816	160,704 - 196,992
Riverside	48,012 - 67,536	62,688 - 69,108	72,564 - 93,072	93,624 - 135,900	N/A	106,920 - 117,888	133,464 - 185,164
Sacramento	41,952 - 56,988	46,968 - 60,048	53,100 - 67,548	75,419 - 113,128	78,261 - 117,392	81,104 - 121,656	96,826 - 145,239
Santa Ana	53,112 - 74,268	58,584 - 81,888	68,136 - 95,256	89,556 - 108,876	N/A	95,556 - 135,036	146,040 - 185,040
Stockton	42,540 - 63,444	53,856 - 69,144	61,140 - 78,504	73,788 - 94,728	N/A	97,512 - 125,098	102,816 - 131,988
<b>Comparative Average</b>	<b>48,993 - 66,553</b>	<b>61,221 - 73,279</b>	<b>70,465 - 86,139</b>	<b>88,452 - 112,227</b>	<b>78,261 - 161,652</b>	<b>105,264 - 130,319</b>	<b>140,741 - 177,941</b>
<b>Fresno</b>	<b>48,768 - 59,220</b>	<b>58,332 - 66,984</b>	<b>64,764 - 74,928</b>	<b>80,940 - 94,812</b>	<b>N/A</b>	<b>*85,000 - 121,000</b>	<b>125,000 - 128,000</b>

\* **Note:** Fresno's Bureau Chief position is equivalent to other cities' Deputy Chief position.

**Note:** These are base salaries and do not include incentives, benefits, or "specialty pay" for various teams such as: Hazardous Materials, Technical Rescue, EMT-1, or Health/Welfare benefits.

**Example:**

- 2.5% for a Fire Service Certification
- 5% for an Associates Degree
- 5% for a Bachelor Arts/Science Degree
- 5% for a Chief Officer Certification

# **Peer City Comparison**

## **Definitions of Data**

### Peer City

The cities used in this comparison are the same (eight) cities used in previous research conducted by the City of Fresno. Some of these reports include; The Mayor's Meeting the Challenge Task Force Report (2003), The Macias Group Report (2002), League of California Cities Article (2003).

### Sworn Fire Fighting Personnel

This represents the total number of fire fighting personnel that are available in the department. This does not include sworn inspectors or civilians.

### Civilian Staff

This represents the total number of civilian staff working for the fire department.

### Daily On-duty Battalion Chiefs

Battalion Chiefs and/or Assistant Chiefs oversee all companies operating during a 24-hour period. A company includes personnel assigned to all engines, trucks, and squads in the city.

### Daily On-duty Fire Fighting Personnel

This represents the total number of personnel available to respond to calls during a 24-hour period. This number includes all Battalion Chiefs, Captains, Specialist (drivers), Firefighters, and Investigators.

## Population

This number represents the total population of each city.

## Firefighters Per 1,000 Population Ratio

This number represents the ratio of firefighters to population in each city. The industry standard recommends a 1-1.5 firefighters per 1,000 population ratio.

## Staffing Per Apparatus

Apparatus refer to engines, trucks, or squads. Staffing assignments for each apparatus varies from city to city.

## Stations

This represents the total number of stations located throughout the city.

## Fire Calls

This is the total number of fire calls (all types) responded to in each city.

## Medical Calls

This is the total number of medical emergency calls responded to in each city.

## Other Service Calls

This number represents all other calls responded to in each city, including but not limited to, explosions, good intent, hazardous conditions, false alarms, and other types of service.



## Total Calls for 2002

This represents the total number of emergency calls apparatus responded to in each city for the year 2002.

## Response Time (Average)

This number represents the time it takes for a unit to arrive on-scene of an emergency incident. The time starts from the moment the alarm is received until the unit arrives at the scene. All response times reported in this study are achieved 90% of the time with the exception of the City of Fresno, which is 65% of the time.

## Square Miles

This number represents the total number of square miles incorporated by each city.

## Engines

This is the total number of engines (apparatus) in-service during a 24 hour period. An engine is equipped with a 500-750 gallon water tank, a pump, and over 2,000 feet of hose lines, in addition to medical equipment.

## Trucks

This is the total number of trucks (apparatus) in-service during a 24 hour period. A truck is equipped with many different sizes of ladders and one heavy-duty ladder (ranging from 75'-105') which rests on top of the apparatus. In addition to medical equipment, trucks also carry saws, fans, and car extrication equipment.

## Squads

These apparatus are smaller vehicles, which can carry water, hose, and medical equipment. Currently, Fresno does not have squads.

## Hazardous Materials Team

This is a specialty team within the fire department that provides for the isolation, identification, and mitigation of all hazardous materials releases in each city.

## Rescue Team

A Technical Rescue Team is another specialty team within a fire department that provides rescue services in confined spaces, structure and trench collapse, water emergencies, and trench collapse.

## Total Units Available Daily

This represents the total number of apparatus available to respond to emergency incidents in the city on a daily basis.

## Fire Department Budget

This number represents the total operating budget for the fire department of each city.

## Per Capita Expenditures

This number is arrived at by dividing the Fire Department annual budget (dollars) by the population. *Example:* (Fresno)  $\$29,000,000 / 441,900$  (population) = \$66 per capita expenditures.

Anaheim:	$\$42,000,000 / 328,014$ (population) = \$128 per capita expenditures
Bakersfield:	$\$24,000,000 / 221,000$ (population) = \$ 97 per capita expenditures
Long Beach:	$\$68,900,000 / 500,000$ (population) = \$138 per capita expenditures
Oakland:	$\$87,000,000 / 403,000$ (population) = \$215 per capita expenditures
Riverside:	$\$32,000,000 / 265,000$ (population) = \$121 per capita expenditures
Sacramento:	$\$60,000,000 / 400,018$ (population) = \$129 per capita expenditures
Santa Ana:	$\$37,500,000 / 343,700$ (population) = \$109 per capita expenditures
Stockton:	$\$32,000,000 / 300,000$ (population) = \$107 per capita expenditures

## Per Capita Fire Loss

Dividing the Total Fire Loss (dollars) by the population arrives at this number. *Example:*  
(Fresno) \$17,804,564 / 441,900 (population) = \$40.29 per capita fire loss

Anaheim:	\$10,818,211 / 328,014 (population) = \$32.90 per capita fire loss
Bakersfield:	\$ 4,815,220 / 221,000 (population) = \$19.49 per capita fire loss
Long Beach:	\$ 6,343,411 / 500,000 (population) = \$12.68 per capita fire loss
Oakland:	\$13,777,237 / 403,000 (population) = \$34.18 per capita fire loss
Riverside:	\$ 4,767,593 / 265,000 (population) = \$13.06 per capita fire loss
Sacramento:	\$12,767,123 / 400,018 (population) = \$27.52 per capita fire loss
Santa Ana:	\$ 3,000,018 / 343,700 (population) = \$ 8.72 per capita fire loss
Stockton:	\$ 5,011,599 / 300,000 (population) = \$16.70 per capita fire loss

### Percent of Sworn Staff in the Department

This number represents the percentage of the entire fire department that is sworn fire fighting personnel.

### Percent of Civilian Staff in the Department

This number represents the percentage of the entire department that are civilian personnel (support staff and inspectors).

### Number of Upper Management Chiefs in the Department

This number represents all upper management Chiefs which include all Administrative Battalion Chiefs, Assistant Chiefs, Deputy Chiefs, Bureau Chiefs, and Fire Chief.

### Total Number of Prevention Staff

This is the number of fire prevention inspectors that are available to conduct new business and fire inspections.

### Percent of Prevention Staff per 1,000 population

Dividing the number of fire prevention inspectors by the cities population illustrates a percentage of inspectors to population ratio.

### Number of Inspections per Fire Prevention Inspectors

This number represents the total amount of inspections that are divided amongst the inspectors in the prevention division.

### Engine and Truck Company Inspections

This number represents the inspections that are to be conducted annually by the engine and truck companies.

### Number of Prevention Division Inspections

This number represents the inspections that are to be conducted annually by the fire prevention inspectors (this does not include new construction inspections).

### Total Number of Training Staff

The Training Division in each city provides mandated training for the entire department. In addition, the Training staff must also provide training to new recruits during drill school.

### Training Staff to Firefighter Ratio

This ratio represents the number of training staff to fire fighting personnel.

### In-House Apparatus Maintenance Shop

This refers to where the maintenance of apparatus is done whether; either within the fire department or contracted with the city fleet maintenance department.

## In-House Mechanics

This represents the number of in-house fire mechanics that are on-duty each day. This category would only apply to those cities with in-house apparatus maintenance shops.

## Airport Stations

Cities that have one or more fire stations and personnel located on the airport property answered 'yes' to this question.

## Fire Department Hydrant Maintenance

City fire departments that participate in fire hydrant cleaning, inspection, and testing during normal business hours answered 'yes' to this question. This is a sizable task, as most cities have thousands of fire hydrants. For example, Fresno has over 11,000 fire hydrants in the City.

## Paramedics

Paramedics are the most advanced level of life support service that can be provided in the field during medical emergencies.

## EMT- II

EMT-II is the limited advanced life support level of service that can be provided in the field during medical emergencies.

## EMT- I

EMT-I is the basic life support level of service that can be provided in the field during medical emergencies.

## Transport

This refers to the department's participation in transporting patients to the hospital which generates revenue.

## Annual Salary Comparisons

Firefighter	Entry level position in the fire department.
Engineer/Driver Operator	Drives and operates fire apparatus.
Fire Captain	First line supervisor. In charge of a company at a station.
Battalion Chief	First level manager for day-to-day operations of all E/T companies.
Assistant Chief	Some cities provide a second level manager who oversees all Battalion Chiefs and other administrative duties.
Deputy Chief	Deputy Chiefs answer directly to the Fire Chief and manage Prevention and/or Suppression Operations. A Deputy Chief is equivalent to our Bureau Chief.
Fire Chief	Chief Executive Officer for the Fire Department.

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## FIRE INDUSTRY REFERENCES

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The following regulations, standards, policies or handbooks are cited in the narratives included in the Supplemental Information section of this report. The numbers and titles are listed here for easy reference.

### **National Fire Protection Association (NFPA)**

1142	Water Supplies For Suburban and Rural Fire Fighting
1500	Fire Department Occupational Safety and Health Program
1561	Emergency Services Incident Management Systems
1670	Operations and Training For Technical Rescue Incidents
1710	Career Fire Departments, Organization and Deployment
1851	Structural Fire Fighting Protective Ensembles

### **Code of Federal Regulation (CFR)**

29CFR 1910.120	Occupational Safety and Health Standards, Hazardous Waste Operations and Emergency Response
29CFR 1910.134	Occupational Safety and Health Standards, Respiratory Protection
29CFR 1910.146	Occupational Safety and Health Standards, Confined Space Rescue

### **Insurance Services Office (ISO)**

Item 561	Fire Suppression Ratings, Credit For Distribution
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### **Fresno/Kings/Madera EMS**

Policy 291	Emergency Medical Services, Equipment Standards - EMS Units
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### **Fire Chiefs Handbook**

Pages 197 - 199	Insurance Grading of Fire Departments, Water Supply
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## SUPPLEMENTAL INFORMATION

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To meet the community's future needs the Department developed the Summary of Future Costs included in the Public Safety Needs Assessment Report. Those definitions have been slightly modified to consolidate Light Vehicles with Operations & Maintenance. Below are the revised definitions which correlates to the supplemental information presented in the remainder of this section.

### **SUMMARY OF FUTURE COSTS DEFINITIONS**

<b>Priority:</b>	The time frame in which the initial cost could be incurred.
<b>Div/Program:</b>	Area within the Fire Department where the cost would be incurred.
<b>Personnel:</b>	Includes salary and fringe benefit costs.
<b>Operation &amp; Maintenance:</b>	Includes all other costs except Personnel and Capital.
<b>Capital:</b>	Includes fire apparatus, one-time expenditures for large purchases of equipment, facility improvements or new facilities.



# **Department Needs by Division/Program**

## **Fiscal Years 2004 - 2005 (Immediate Needs)**

### **Immediate Needs**

#### NOTES:

- \* The capital projects designated by an asterisk may be combined with Police Department proposed capital projects as a cost savings measure for construction, operation, and maintenance. This possibility is currently being explored.
- \*\* Projects designated by two asterisks are currently under consideration for bonding.
- \*\*\* Use of Fleet Maintenance Division space for the Fire Repair and Maintenance function is currently being explored.

### **Administration Division:**

**Add one (1) Programmer Analyst I position to assist in the maintenance and development of Department information systems; (formerly a Computer Systems Technician position to maintain Department computers). (page 37)**

The Department has 84 computers and 71 separate software programs. As the Department expands its computer technology through the implementation of a new records management system, global information systems enhancements, mobile data terminal enhancements, and pursues accreditation from the Commission on Fire Accreditation International (CFAI), maintaining its computer systems in peak working order will be critical.

The Department does not have on staff personnel with the expertise needed to monitor and maintain integrated information systems; to analyze network performance; and to ensure the proper linkage between the mainframe, network and personal computers. Upon additional analysis, the Department has determined that its highest priority is to add a Programmer with the expertise to maintain and extend the functionality of its software. The programmer position will work closely with the Information Services Manager position to integrate the information system into all aspects of the operations of the Department.

In order to properly fund the new position the funding request should be increased from \$49,953 to \$50,841, approximately \$900.

Personnel	\$45,691
Operation & Maintenance	<u>5,150</u>
Total	\$50,841

**Add one (1) Information Services Manager position to develop Department information technology solutions; (formerly the Network Systems Specialist position to maintain Department computer software). (page 37)**

Originally, the Department requested a Network Systems Specialist to maintain its software and network connections. Subsequent analysis of the Department's needs revealed that as a part of its daily operations, the Department collects and maintains large volumes of highly detailed and intensely critical information. Currently the Department does not have an information systems strategy, nor a central information system that allows for the collection, maintenance, and storage of this information. Consequently, the Department should employ an Information Services Manager to ensure that its goals and objectives are met. The manager position will develop a strategic plan for the Department and assist in the development of a central information technology solution. In addition, this position will serve as a liaison between the Department and the various computer vendors who supplied the hardware and software for the records management system, geographic information systems, and mobile data terminals the Department uses.

In order to properly fund the new position the funding request should be increased from \$70,361 to \$95,910, approximately \$25,500.

Personnel	\$85,400
Operation & Maintenance	<u>10,510</u>
Total	\$95,910

**Add back one (1) Maintenance Service Worker position deleted in FY 04 budget. (page 37)**

The ability to deliver equipment and supplies in a timely manner is critical to the efficiency of the Department. This position would provide courier services throughout the many fire facilities, City Hall, and other City facilities as well as perform other utility type duties.

Personnel	\$29,541
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**Upgrade office equipment and workstation. (page 37)**

The request consists of a new copier for Administration. The current machine is five years old with 1.5 million copies produced on it. It is repaired frequently and should be replaced.

Operation & Maintenance	\$12,360
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**Construct new Fire Headquarters. Current building will be demolished under the 2025 General Plan. (page 37)\***

Fire Headquarters was originally built as a fire station in 1956. It was closed as a station and converted to office space in 1975. The building is in extremely poor condition and is scheduled to be demolished due to redevelopment. In addition, the Department has already outgrown the facility and with the anticipated growth in support personnel identified in the Needs Assessment Preliminary Findings report, there is not adequate space to house the additional staff. Concurrently, the Downtown Revitalization Plan identifies the land to be converted to a parking lot for Armenian Town within two years. Based on these facts, a new building must be built immediately.

Capital	\$4,615,350
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**Suppression Program:****Add one (1) administrative Battalion Chief to manage administrative projects. (page 37)**

The addition of this position will assist the Operations Division to coordinate field activities and responsibilities and comply with state and federal regulations dealing with firefighter safety. It will also assist in planning for apparatus, equipment, personnel needs, and fire station development and construction. The workload of Field Battalion Chiefs will be decreased allowing them time for supervision and personnel development of company officers. This Battalion Chief will be immediately available to respond to major incidents requiring a second alarm or greater to assist the incident commander in scene management.

Personnel	\$102,009
Operation & Maintenance	<u>10,300</u>
Total	\$112,309

**Add one (1) administrative Captain to perform administrative projects. (page 38)**

Many administrative duties and projects are currently assigned to Operations field personnel who perform them during their regular shift assignment and on an overtime basis when they are off-shift. Performing these assignments is a positive career developing experience for those assigned, but it does detract from their primary responsibilities as emergency response personnel. There is also a delay when feedback is required and an individual is off-shift. This position would ensure timeliness and continuity in the accomplishment of critical Department projects. This Captain will also be immediately available to respond to major incidents requiring a second alarm or greater to assist the incident commander with scene management.

Personnel	\$84,786
Operation & Maintenance	<u>5,150</u>
Total	\$89,936

**Establish six (6) Rapid Response Units with two (2) person staffing to improve response time and company reliability; forty-eight (48) positions. (page 38)**

These units will be assigned at the busier stations to provide a four-minute response time by providing reliability that a unit will be in station or available when a second incident occurs. Adding units will help meet response standards within the stations' response area in accordance with NFPA 1710. Units will also be relocated to stations vacated by units out of service, in training for long durations or on major incidents. Rapid Response Units would augment engine and truck crews at fire incidents and allow for safe entry into fire structures while complying with two-in/two-out Federal Regulation 29CFR1910.120 and NFPA 1710. Finally, these units will also provide accessibility and fire suppression service when fires occur in the wild land/agricultural areas that are within the Department's response areas.

Personnel	\$3,350,949
Operation & Maintenance	286,752
Capital	<u>1,081,500</u>
Total	\$4,719,201

**Add one (1) additional computer and printer to eleven (11) fire stations. (page 38)**

Computers are utilized by station personnel to complete reports, send and receive e-mail messages, and review Department communications, instructions, and procedures. These eleven stations need additional computers to provide access to crew members when the primary computer is in use by the company officers completing reports or other required documentation.

Operation & Maintenance	\$16,995
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### **Replace outdated apparatus - ten (10) engines. (page 38)**

The Department should maintain an Apparatus Replacement Program to ensure that front-line vehicles are replaced in a timely manner which will avoid excess maintenance costs and apparatus being out of service for long periods of time while being repaired. The useful life for engines is 12 years in front-line service and five years used as a reserve vehicle. Aerial ladder trucks have a useful life of 15 years for front-line service and five years as a reserve vehicle. Specialty apparatus such as Hazmat units or water tenders have a useful life similar to aerial ladder trucks. Light vehicles such as small trucks and sedans have a useful life of ten years. As part of the Department's continued assessment of its operations, the useful lives of all apparatus will be reviewed again taking into consideration annual mileage, maintenance records, and apparatus programs utilized by peer cities.

In order to comply with the Apparatus Replacement Program, ten engines which have reached their useful service lives of 12 years as front-line vehicles need to be replaced. Maintenance costs are increasing, replacement parts are difficult to find and availability for fire calls will decrease as it takes longer to repair the engines.

Capital	\$4,120,000
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### **Replace outdated water tender. (page 38)**

A minimum of two water tenders is required to maintain service in areas void of fire hydrants and wild land/agricultural areas. Currently the Department has only one water tender in service and available for response. At this time the unit is beyond its useful life and needs replacement.

Capital	\$257,500
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### **Install laundry facilities at fifteen (15) stations to maintain personal protective equipment (turnouts). (page 38)**

Fifteen stations lack equipment and facilities to wash Personal Protective Equipment (PPE) that is soiled and contaminated during fire and emergency medical service (EMS) incidents. The current practice is to send PPE to the one station that has facilities for washing. This increases the time in which PPE is unavailable for use and has the potential to spread contamination in transit. Adding laundry facilities to each station will ensure compliance with personnel safety requirements under NFPA 1500 & 1851.

Capital	\$309,000
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**Station Maintenance and Renovation Capital Project. Repair and upgrade sixteen (16) fire stations.\*\* (page 38)**

Station repair and maintenance have been deferred for several years due to a lack of funding. Further delays in required maintenance and repairs will only increase deterioration and costs. Facility upgrades are also necessary in the living areas and apparatus bays. Plans include the installation of diesel exhaust systems to comply with firefighter safety requirements under NFPA 1500 9.1.6.

Capital	\$4,192,100
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**Station 15 - Construct station in Southeast Fresno.\*\* (page 38)**

New home construction has expanded beyond the three-mile limit from existing fire stations in the Southeast area of the city. In order to continue construction as planned in the 2025 General Plan, a new station must be built. It will provide coverage to this area, provide an engine company within three miles of every built-up area in the city, comply with the two-in/two-out Federal Regulation for firefighter safety, and maintain response time goals under NFPA 1710

Capital	\$2,781,000
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**Station 15 - Staff and equip new station with one engine company in Southeast Fresno; sixteen (16) positions. (page 39)**

These positions along with an engine will staff the new fire station by providing 24-hour emergency response to meet the needs of the area.

Personnel	\$1,179,560
Operation & Maintenance	166,789
Capital	<u>424,400</u>
Total	\$1,770,749

**Increase truck companies to four (4) person minimum staffing per apparatus; twenty (20) positions. (page 39)**

Current truck staffing is three fire fighting personnel. Trucks are assigned various functions at fires and other emergencies such as search and rescue, access, ventilation, rapid intervention, and salvage during fires and extrication and rescue at medical/trauma emergencies. Adding the fourth person will allow for a more rapid and organized accomplishment of these functions while maintaining

personnel safety. In addition, the increase from three members to four should result in a decrease in firefighter injuries causing a reduction in worker compensation claims. Fire damage to structures will also decrease significantly with the addition of the fourth firefighter as there will be more personnel at the fire sooner.

Personnel	\$1,274,539
Operation & Maintenance	<u>123,076</u>
Total	\$1,397,615

**Purchase a Rehabilitation Unit to provide rehabilitation services to personnel at fires. (page 39)**

Personnel require rehabilitation during emergency incidents due to extreme physical activity and environment. Forty-one percent of fire deaths occur due to overexertion or stress. Thirty-eight percent of firefighter fatalities were caused by heart attacks.

Proper rehabilitation requires monitoring of a person's vital signs, fluid and nutritional replenishment prior to returning to activity or release back to their assigned station. The Rehabilitation Unit would be dispatched to an incident to provide these services to personnel in accordance with NFPA 1500 and 1561.

Operation & Maintenance	\$106,100
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**Increase apparatus reserve pool by one (1) engine to maintain a 3:1 ratio of front-line units to reserve units. (page 39)**

Currently the Department has 16 front-line engines in service and will add an additional unit in 2005 responding to emergency incidents. When these units need maintenance and repair, crews are transferred to reserve engines to maintain coverage of response areas.

Reserve apparatus should be maintained in a fully equipped condition ready for assignment with personnel recalled to duty in the event of major incidents or disasters. Adding another reserve apparatus would maintain the Department's policy of a 3:1 ratio of reserve apparatus to front-line apparatus.

In addition, there would be a sufficient number of reserve apparatus for a full alarm assignment when staffed with recalled personnel. The additional engine would be placed into front-line service and an older engine would be placed into the reserve apparatus pool.

Capital	\$424,400
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**Replace two (2) aerial ladder trucks that are beyond their front-line useful lives. (page 39)**

The Fire Department currently has one reserve aerial ladder truck. When a truck is out of service for maintenance or repairs, the number of trucks available to respond is reduced. This results in fewer trucks available to respond to structure fires and vehicle extrications. The two aerial ladder trucks to be replaced are no longer operational. Both were purchased in 1986 and are past their useful lives. Replacing the trucks will allow for continuous truck coverage in the city and will maintain a sufficient number of reserve apparatus for a full alarm assignment when staffed with recalled personnel.

Capital	\$1,485,400
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**Install emergency power generators at fifteen (15) stations. (page 39)**

Fire stations do not have a back-up power supply to provide electric power in the event of a power failure even though the stations and fire apparatus have equipment that requires electrical power to maintain operations and ensure rapid response.

With power generators fire stations can continue to operate and respond to emergencies and provide assistance. In addition, stations are located in all areas of the community and can provide assistance and information to the public during disasters or power outages.

Capital	\$1,200,000
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**Communication Program:**

**Add thirteen (13) dedicated Fire emergency dispatch personnel positions to handle fire/EMS calls on a full-time basis. (page 39)**

Adding these positions will increase the level of service provided to the community and meet the Insurance Services Office (ISO) requirements for the volume of current incident responses. It will also lower response times which meet the Department's operational goal to be on-scene within four minutes 90 percent of the time.

Finally, the additional positions should decrease the errors made in communication during emergencies as recommend by the West Fresno Fire Service Task Force.

Personnel	\$747,621
Operation & Maintenance	<u>101,455</u>
Total	\$849,076



**Add one (1) Fire OES/PIO Officer position to assist in the coordination of the City's emergency management program and provide public information in emergency situations. (page 40)**

The Office of Emergency Service and Public Information Officer is an essential part of communication before and during a disaster or terrorist attack. This position will be responsible for the development and maintenance of a communication plan that incorporates the Mobile Command Center, Communication Center, Department Operation Center, and the City and County Emergency Operation Center during a disaster. The position will also control and manage information releases to the media for the Department.

Personnel	\$44,559
Operation & Maintenance	<u>20,600</u>
Total	\$65,159

**Purchase and install two (2) repeater radio transmitters including additional radio frequencies to upgrade communications to meet Department needs by ensuring emergency communications. (page 40)**

The Department's radio communication needs were developed with little long-range planning and little investment in the infrastructure for the past 25 years. Additional frequencies and repeater channels would provide necessary coverage as the City grows and during large incidents. A long term plan is needed to provide the additional frequencies and interoperability with other law enforcement and fire agencies.

Capital	\$3,090,000
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**Purchase 21 in-mask SCBA communication systems for fire companies. (page 40)**

Communications during an emergency are not only crucial for operations, but the safety of fire fighting personnel. Having the ability to communicate with fire fighting personnel wearing face-masks in a non tenable environment will provide a higher level of safety and accountability during emergencies.

Operation & Maintenance	\$17,825
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**Purchase cellular phones for 18 fire companies to be used for backup communications. (page 40)**

Cellular telephones will provide back up communications when we have portable or mobile radio failures. In addition, there are instances where citizens need to communicate with family members or insurance agents immediately following a fire, vehicle accident, or other traumatic experience. Having ready access to cellular phones ensures that these communications can take place when the situation arises.

Operation & Maintenance	\$13,369
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**Replace 60 outdated portable radios used by fire personnel on service calls. (page 40)**

Communications are the number one priority in keeping fire personnel safe during emergencies. It is essential that members on the fire ground have the same type of portable radio in their possession to alert them to eminent dangers or to notify the incident commander of injuries, entrapments, or other critical needs. When each member of a fire company has a portable radio during fire inspections, it allows the crew to complete multiple inspections simultaneously, improving productivity.

Operation & Maintenance	\$57,294
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**Purchase one (1) mobile communication/ command vehicle to be used on large incidents. (page 40)**

A communication vehicle is designed to improve communication during a large or extended emergency incident. When on-scene, the vehicle can increase the communication between fire, law enforcement, and other agencies. The vehicle is designed to house an on-scene dispatch team, relieving the communication center of the incident and allowing them to handle day-to-day routine emergencies. The vehicle can stand in during a complete failure of our communication system in the event of an attack on our dispatch center and/or back-up center, or if the repeater sites were destroyed. This vehicle can establish portable repeater providing communication between the fire stations, fire apparatus, and act as a dispatch center. It provides a cache of portable radios for recalled staff and personnel to the emergency incident.

The Department is in the process of acquiring an older model Fresno Area Express bus to serve as the base vehicle. The bus will need modifications to convert it to its new use, including but not limited to wiring, equipment, radio communications, Internet access, and work station areas etc.

Capital	\$371,350
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**Purchase a Voice Computer Aided Dispatch (CAD) System which will decrease response times to incidents and meet ISO Rating requirements for a backup dispatch system. (page 40)**

This system dispatches the initial notification to the fire stations alerting the fire companies of an incoming emergency incident. It is a computer generated voice which is consistent and easy to understand. This reduces errors from the dispatcher and responding companies. The system electronically monitors itself. It identifies when a fire station's radio system is inoperable, and meets the Insurance Services Office (ISO) secondary/backup dispatch system requirement.

Capital	\$450,925
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**EMS Program:**

**Replace outdated Cardio Pulmonary Resuscitation (CPR) training equipment. (page 40)**

The Department provides first responder basic life support services. Since CPR is an integral part of this service, the Department provides training to its personnel to ensure that they remain certified. Most of the EMS training equipment is more than ten years old and needs replacement.

Operation & Maintenance	\$2,060
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**Provide additional CPR and Defibrillator Instructor training. (page 40)**

Current and future EMT-D and CPR instructors require specific training to teach the rest of the Department and to stay in compliance with local, State, and Federal requirements.

Operation & Maintenance	\$2,575
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## **TRT Program:**

### **Replace one (1) TRT light vehicle which is beyond its useful life. (page 41)**

The current TRT light vehicle is a retired Department shop light pick up. It is past its useful life and too small for current equipment needs. A new light vehicle designed specifically for the TRT will provide a more reliable response unit capable of towing a trailer with additional rescue equipment.

Operation & Maintenance	\$87,550
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### **Purchase one (1) additional apparatus and equipment to be used by TRT. (page 41)**

The TRT currently responds to rescue incidents and carries some of its rescue equipment on an aerial ladder truck and the remainder in the light pick up and trailer (there is insufficient storage on the truck). As a result some equipment is stored in the station and loaded specifically for the emergency response. This creates a delay in the response from five to 15 minutes.

A specialty rescue vehicle large enough to efficiently deploy the TRT and carry all of its equipment to rescue incidents is needed. The aerial ladder truck will continue its service as a truck with truck equipment.

Operation & Maintenance	\$ 53,050
Capital	<u>424,400</u>
Total	\$477,450

## **Hazmat Team Program:**

### **Purchase various communications equipment for Hazmat Team. (page 41)**

The ability to communicate with other responding agencies or disciplines is necessary to ensure the safety of the community as well as the incident responders. The communications equipment that is presently used by the Hazmat team is outdated and some do not function. Replacing analog cell phones, the fax machine and establishing Internet capabilities on the Hazmat vehicles will allow the team to function at the level necessary.

Operation & Maintenance	\$6,232
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**Provide certification pay and annual physicals for nine (9) additional Hazmat team members. (page 41)**

All personnel who are certified as hazardous materials technicians or specialists who may be utilized on hazardous materials responses are required by 29CFR 1910.120 to have annual physicals with increased blood work and treadmills.

The Hazmat team presently requires that five certified persons are scheduled at the two hazardous materials response stations each day. Cal-OSHA requires that five certified persons are on scene for entry into specific environments.

The additional personnel will increase the availability of certified hazardous materials technicians or specialists to respond to major incidents and meet the minimum Cal-OSHA requirements on a daily basis.

Personnel	\$30,480
Operation & Maintenance	<u>5,252</u>
Total	\$35,732

**Purchase one (1) additional Hazmat vehicle. (page 41)**

The City of Fresno Fire Department, Hazmat team is the only fully staffed specialty team equipped to respond to nuclear, biological, and chemical releases within the Fresno County Operation Area.

As technology changes, the amount of equipment to properly mitigate a hazardous material release has increased. The present vehicle does not have the storage capabilities to respond with all of the necessary equipment to safely handle some of the emergencies. Some equipment has to be removed to provide the storage space for additional equipment.

The number of hazardous materials responses have increased over the past ten years. In October of 2001, the Hazmat team responded to 104 requests for service. On multiple dates, a number of requests occurred simultaneously. The Hazmat team was unable to expediently manage the events due to the commitment of the vehicle and personnel at another incident site. The Department needs two Hazmat vehicles to accommodate this volume of requests should it occur again in the future.

Capital	\$265,250
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## **Repair & Maint. Section:**

### **Provide training for two (2) new mechanics to certify them in the repair and maintenance of fire apparatus. (page 41)**

During the past year, the shop has been operating below the optimum staffing level. This was due to the transfer of two mechanics to the Suppression Division and the resignation of one lead worker. This situation has caused the preventive maintenance program required by the Vehicle Code to fall behind 45 days.

These positions have been filled, however, subsequent training is required to develop the new employees to meet Automotive Service Excellence (ASE) Certification as well as State Fire Marshal and technical certifications needed to maintain, service, and test fire fighting equipment.

Operation & Maintenance	\$5,150
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### **Purchase additional repair and maintenance tools and equipment. (page 41)**

The following equipment is needed to continue providing the current level of services: additional metric hand tools are needed to repair newer fire apparatus that are equipped with metric bolts and fasteners; and the purchase of a new heavy-duty floor jack. This will allow equipment to be safely hoisted for repair and maintenance.

Operation & Maintenance	\$10,300
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### **Purchase fire equipment to fully outfit all reserve apparatus. (page 41)**

Reserve fire apparatus are required to be fully equipped with all necessary support equipment and tools by the Insurance Service Office (ISO). Reserve apparatus are relied upon during extended emergencies and disasters requiring the deployment of additional units through the recall of off-duty firefighters. In addition, maintaining a reserve fleet provides the opportunity for response to incidents outside the Fresno area through the State of California Mutual Aid System. Fully equipped reserve apparatus will also minimize down time when changing apparatus for preventive maintenance and repair purposes.

Operation & Maintenance	\$51,500
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### **Purchase one (1) air refilling vehicle to service SCBA bottles at fire sites. (page 41)**

Currently, shop personnel shuttle air cylinders between the scene of major emergencies and the repair shop in order to provide air filling services for firefighters. A vehicle with air refilling capability is needed to reduce down time due to travel and support field operations. This will enhance firefighter safety and ensure uninterrupted emergency operations. The support equipment should include a portable air compressor and spare air cylinders to minimize lost time sending air cylinders back and forth to the shop for filling.

Capital	\$309,000
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**Construct new repair and maintenance facility.\*\*\* (page 42)**

A new repair facility is needed. The current repair facility needs major structural repairs in order to meet building codes and standards. Even if such repairs were made, the current facility would not meet the needs of the Repair and Maintenance Section. The current facility does not have sufficient work area, storage, office space, nor restroom and locker facilities. Improvements in the working conditions for shop personnel are essential to maintaining the fire service fleet. The new repair facility should allow cabs of apparatus to be raised inside the building for repair purposes during adverse weather conditions. This situation is not always possible at the current facility. Therefore, repairs are often required to be done outside.

Capital	\$2,420,500
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**Remove an underground fuel tank and reinstall an above ground tank for fire apparatus use at the maintenance facility. (page 42)**

The underground fuel storage tank that is no longer approved nor used must be removed as per state mandated regulations. The shop should have an aboveground fuel tank to fuel apparatus after hours. This will ensure emergency response capability for all apparatus during after hours and times of disaster.

Capital	\$37,080
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## **Training Section:**

### **Add five (5) additional Training staff positions to provide training to new personnel. (page 42)**

Currently, the Fire Department provides a 13-week introductory recruit academy. The academy can accommodate up to 18 recruits during each session. Usually, overtime is required to fulfill the added workload when academies are required. With the increase in personnel added to the Department, as well as the anticipated turnover projected, the Department will need to provide adequate recruit training.

Five full-time staff positions are needed to provide recruit academies while maintaining the continuing education program. The positions include one Fire Captain, one Firefighter Specialist, and three Firefighters assigned to the recruit academy.

Personnel	\$348,139
Operation & Maintenance	<u>97,850</u>
Total	\$445,989

### **Purchase new apparatus and use older apparatus for Training personnel. Two (2) engines and one (1) aerial ladder truck. (page 42)**

Currently, front-line apparatus are taken out of service in order to provide training for recruit academies, new equipment orientation, specialized training, and promotional exams. Such practices increase the risk to the community by increasing response times to emergencies. Sufficient reserve apparatus, specifically assigned to the Training Division, will maintain available emergency response to the community.

Capital	\$1,545,000
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### **Add two (2) additional Training staff positions to provide training to existing personnel in safety and driving disciplines. (page 42)**

One Fire Captain would be assigned as the Fire Department Safety Officer and Emergency Medical Services Training Coordinator. This position will better meet the requirements for the Injury Illness and Prevention Program as well as the Infection Control Program. In addition, the position will assure firefighters receive mandated Emergency Medical Technician certification training.

A Firefighter Specialist would be added to the Training staff to provide orientation training, career development, and ongoing training to fire apparatus driver operators. Since accidents involving fire



apparatus are all too common nationwide, training is required to assure driver skills and awareness are maintained.

Personnel	\$167,436
Operation & Maintenance	<u>42,440</u>
Total	\$209,876

### **Construct new training facility.\* (page 42)**

Currently, drills are conducted in the same area where vehicles are parked. The lone classroom accommodates only 18 personnel. A modern training facility will provide additional classroom space and drill ground with which to properly train professional firefighters to meet the needs of the community. The estimate below assumes that the new training facility would be built on the current site. The present drill tower would be updated as described on page 49.

The Department is investigating moving the training facility to an entirely new site due to the redevelopment plan for Downtown Fresno. If a new site is chosen, the total cost to construct the training center will increase. At this time, relocation plans are preliminary and the Department is unable to accurately estimate this cost.

Capital	\$3,496,844
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### **Prevention Division:**

#### **Add six (6) additional inspection staff positions to bring division personnel to appropriate level for the size of community and workload demands. (page 42)**

Currently, Fire Prevention is at approximately the same staffing level as in 1978. At that time the Department had three chief officers and ten inspectors serving the city with a population of 198,000 covering 61 square miles. In contrast, the Department staffing level in 2002 was two chief officers and nine inspectors serving the city with a population of 441,900 covering 104 square miles.

By increasing our staffing we can better accommodate new construction demands, as well as complete all building/business inspections. What this means to the citizenry is less time in waiting to schedule necessary inspections for new construction, remodel/improvements, and general business inspections.

Personnel	\$334,401
Operation & Maintenance	<u>123,600</u>
Total	\$458,001

**Add six (6) Arson Investigator positions to provide an additional investigator on duty each day and investigators to conduct investigations. (page 43)**

Provide two investigators (56-hour) per shift, one for each battalion (similar to one Battalion Chief/operational area). Provide one 40-hour follow-up (detective) Investigator per shift.

Currently, one Investigator automatically responds to every full alarm fire in town for a 24-hour period. Having two Answering Investigators (one for each battalion) will allow the Investigator more time to investigate a fire scene and assist the company officer with investigation details.

Adding the follow-up (detective) Investigator will allow the Fire Department to investigate more fire incidents. Being assigned to one shift only, the 40-hour Investigator has more time to assist his/her shift company officers and private citizens.

Combined, the increase in investigation staffing will give the community a more thorough investigative group and the ability to prosecute more fires where evidence of arson is found. This addition will place more investigators on a major fire scene making for a more thorough scene investigation.

Personnel	\$466,547
Operation & Maintenance	<u>133,900</u>
Total	\$600,447

**Add back one (1) Juvenile Firesetter Counselor temporary position that was deleted in the FY 04 budget. Establish this as a permanent full-time position in the division. (page 43)**

At this time, we have lost our Juvenile Firesetter Program. By returning the Counselor to full-time status, we can better provide Juvenile Firesetter counseling to the community. Children with matches caused more than \$460,000 damage in fire loss and injury in 2002. The counseling is given to an age group ranging from five years to 15 years old. These children are referred to our program by parents, schools, and the court system.

By educating our youth on the dangers of playing with fire, we can reduce the recurrence of fire injury and property loss in our city.

Personnel	\$40,804
Operation & Maintenance	<u>5,150</u>
Total	\$45,954

**Add back one (1) Senior Administrative Clerk position that was deleted in the FY 04 budget. (page 43)**

This position is responsible for environmental research, statistical reports, dispersal of monthly inspections citywide, modifications to inspection files to include computer entry, performance measures, hazardous materials permit program, and re-inspection billings.

By adding back the position, the Department will be able to manage the workload anticipated by the additional inspection staff.

Personnel	\$33,431
Operation & Maintenance	<u>5,150</u>
Total	\$38,581

**Establish one (1) Deputy Fire Marshal position at a Battalion Chief level to assist the Fire Marshal in managing the division and providing service to the community. (page 43)**

Currently, the Bureau Chief (Fire Marshal) directs the work of one Captain (Deputy Fire Marshal), one Supervising Fire Prevention Supervisory Inspector, 16 uniformed staff, four clerical staff, and one Fire Prevention Engineer. By having a battalion level Deputy Fire Marshal, the Fire Prevention Bureau will operate more effectively in carrying out its responsibilities, as well as able to accomplish special projects such as budget, performance assessments, yearly personnel evaluations, new construction, and additions or changes in the building codes and local ordinances.

Incorporating this position will allow the Captain in charge of Fire Investigation to focus on fire cause and origin, training, recruitment, and scheduling requirements of the fire investigation team.

Likewise, the Supervising Inspector can focus on training, recruitment, and career development (currently our Supervising Inspector completes all fire alarm plan checks).

Personnel	\$105,079
Operation & Maintenance	<u>58,355</u>
Total	\$163,434

**IMMEDIATE NEEDS TOTALS:**

Personnel	\$ 8,470,972
Operation & Maintenance	1,643,839
Capital	<u>33,300,999</u>
SUBTOTAL	\$43,415,810

**Department Needs By Division/Program**

## **Fiscal Years 2006 - 2010**

### **FISCAL YEAR 2006**

#### **Administration Division:**

##### **Add one (1) Bureau Chief position to oversee the Support Services Division. (page 44)**

The size and complexity of the organization necessitates the addition of a Bureau Chief position to oversee the Support Services Division (formerly the Bureau of Administrative Services). The Department is understaffed in upper management positions in comparison to its peer cities. The average for Fresno's peer cities is 5.3 positions while Fresno has three positions at this level.

The Bureau Chief will report directly to the Fire Chief and will oversee all administrative services such as budget, personnel, computer services, finance section. The administrative Bureau Chief will also oversee the completion of disciplinary actions, and provide for the Department's ongoing planning and research needs.

Personnel	\$128,280
Operation & Maintenance	<u>18,035</u>
Total	\$146,315

##### **Add one (1) Senior Secretary position to assist the new Bureau Chief. (page 44)**

With the addition of a Bureau Chief, it is necessary to provide adequate support staff to assist with the myriad of assignments. In FY 1995, a vacant Senior Secretary position was converted to a much needed Principal Account Clerk position for enhanced staffing in the Finance Section. This serves to restore the reduced staffing of one Senior Secretary.

Personnel	\$43,123
Operation & Maintenance	<u>5,465</u>
Total	\$48,588

**Add one (1) Human Resource Analyst (HRA) position to assist in the hiring of the Department personnel and other employment related duties. (page 44)**

The addition of a Human Resource Analyst position will provide assistance to the Department's personnel officer. Based on recent staffing trends, the Department will experience a minimum of 18 vacancies per fiscal year and possibly will be engaged in two recruit academies per year. Should Deferred Retirement Option Plan enrollees accelerate their retirement dates, this number may significantly increase. Replacing personnel is a very labor intensive assignment. The HRA will also assist with all other personnel duties such as workers compensation case management, payroll oversight, the preparation of some disciplinary actions, reviews of Family Medical Leave Act (FMLA), Federal Labor Standards Act (FLSA) applications, as well as sick leave review.

Personnel	\$57,852
Operation & Maintenance	<u>5,465</u>
Total	\$63,317

**Add one (1) Senior Accountant Auditor position to be a first-line supervisor of the accounting area and provide additional accounting expertise. (page 44)**

As a means of providing an enhanced checks and balances system to the accounting functions of the Department, it is proposed to add an accounting position at the level of Senior Accountant Auditor. This position will be assigned to the Finance Section of the Department and will report to a Management Analyst III. Primary duties include the performance of complex accounting and audit assignments.

Personnel	\$65,353
Operation & Maintenance	<u>5,465</u>
Total	\$70,818

**Add one (1) Senior Account Clerk position to assist the current staff with accounting and payroll tasks. (page 44)**

Currently, two Senior Account Clerks are assigned to perform the tasks of accounts payable and payroll. The size and complexity of both of these functions coupled with the growth of the Department necessitates an additional Senior Account Clerk primarily assigned to complete research projects, queries, payroll audits relative to overtime review, FLSA, FMLA, and sick leave reviews, etc.

Personnel	\$38,476
Operation & Maintenance	<u>5,465</u>
Total	\$43,941

## Suppression Program:

### **Add four (4) additional Battalion Chief positions to provide an additional chief on duty each day. (page 45)**

An additional on-duty responding Battalion Chief (BC) will bring the total number of emergency response BC's to three on duty in each 24-hour shift. This will provide for a span of control ratio of 1 BC:15-18 fire fighting personnel versus the current ratio of 1:30-33 fire fighting personnel; enhanced supervision and accountability during day-to-day and larger emergency operations; and a supervising chief officer to arrive on the scene within the 8-minute response goal as part of a complete alarm assignment. It also provides the opportunity for BCs to participate in company officer development, and a redistribution of administrative responsibilities. These service enhancements will meet NFPA 1710 and NFPA 1561.

Personnel	\$432,995
Operation & Maintenance	<u>99,190</u>
Total	\$532,185

### **Increase one-half of the fifteen (15) engine companies to four (4) person minimum staffing per apparatus; thirty (30) positions. (page 45)**

Staffing engine companies with four persons will provide sufficient fire fighting personnel on first-arriving engines to the scene of structure fires to make entry and attack the fires by complying with the two-in/two-out Federal Regulation requirement for entry into an Immediately Dangerous to Life and Health (IDLH) atmosphere in accordance with 29CFR 1910.134, NFPA 1710 and NFPA 1500. It will provide for rapid entry and knockdown of the fire prior to flash over. Fire damage to structures may also decrease with the addition of the fourth firefighter.

The increase from three members to four may also result in a decrease in firefighter injuries resulting in a reduction in worker compensation claims.

Personnel	\$1,969,470
Operation & Maintenance	<u>190,182</u>
Total	\$2,159,652

**Add one (1) additional aerial ladder truck company to improve response time and company reliability in central Fresno; sixteen (16) positions; (formerly assigned to Station 5). (page 45)**

The additional aerial ladder truck company will increase the total number of truck companies to six. It will provide aerial ladder truck coverage to the central Fresno Freeway 41 mid rise corridor and downtown high rise district. The specific station assignment will be determined when the company is established. The recommended number of truck companies for the city is one ladder/service company within 2.5 miles of every built-up area of the city under ISO item #561.

Personnel	\$1,215,135
Operation & Maintenance	101,431
Capital	<u>765,100</u>
Total	\$2,081,666

**Provide annual funding for station repair and maintenance projects.**

The Department's facilities are badly in need of renovation and/or repair. Funding to bring the facilities up to date was included in the Immediate Needs section of this report. To ensure that the facilities are maintained in the future, an annual amount for maintenance is also included.

Operation & Maintenance	\$109,300
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**EMS Program:**

**Replace ten (10) outdated Defibrillator machines with current County of Fresno approved model. (page 45)**

By 2006, ten (10) Medtronic 510 defibrillators will be beyond their reasonable work-life of five years and will need to be replaced with current models.

Operation & Maintenance	\$38,254
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**Purchase remaining medical equipment required to meet County of Fresno standards for providing medical services in the County. (page 45)**

Per Fresno/Kings/Madera EMS Policy 291, specific equipment inventories are to be carried on all first responder units. Currently, two items are not carried on Department apparatus: one, the Kendrick Extrication Device (KED), a short backboard device used for children or auto extrication; two, the Hare Traction Splint (utilized for femur fractures).

Operation & Maintenance	\$16,395
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### **TRT Program:**

#### **Establish a six (6) person rescue company to respond to community needs; twenty-four (24) positions. (page 46)**

The Department's three-person rescue company currently responds using an aerial ladder truck. When the truck is called to a rescue, the Northeast section of the city is without a truck. The six-person company will free up the truck to respond to calls within its response area and will provide adequate rescue services to the community and increase citizen and firefighter safety during emergency incidents. This service enhancement will meet various regulations including NFPA 1710 5.2.3.3.2 and 29CFR 1910.146

Personnel	\$1,740,327
Operation & Maintenance	<u>152,146</u>
Total	\$1,892,473

### **Hazmat Team Program:**

#### **Replace Hazmat apparatus beyond its front-line useful life. (page 46)**

The useful lives of the Department's apparatus were described on page 27. To comply with the program, the Hazmat unit must be replaced.

Capital	\$546,500
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#### **Add one (1) Battalion Chief position to administer the Hazmat Program. (page 46)**

With the continued threat of domestic and international terrorism within the United States, the Department of Homeland Security will soon require all public safety agencies to develop a unified response to the increased threat. In addition, as the city grows, the potential for hazardous materials releases will also increase with the increase in businesses and transportation.

The current management structure of one 56-hour Battalion Chief to oversee the Hazmat program will be unable to respond to all of the program's requests in a timely manner. In order to meet the community's need, a 40- hour person should be hired to manage the daily operations of the Hazmat Program.



Personnel	\$108,249
Operation & Maintenance	<u>81,975</u>
Total	\$190,224

## **Repair & Maint. Section:**

### **Add two (2) Fire Equipment Mechanic I positions to perform repairs and maintenance on fire apparatus. (page 46)**

The Repair and Maintenance Section will need to increase staff by two additional mechanics to support the plans for additional stations and apparatus in the next ten years. This will enable support staff to meet the repair and maintenance standards required for emergency vehicles.

With the anticipated increase in fire apparatus and specialty equipment, two additional fire equipment mechanics will be required to provide mandated maintenance services on apparatus. In addition, the support unit used during large scale emergencies will be enhanced to provide logistical support. The result will assure reliable emergency response to the community.

Personnel	\$ 87,181
Operation & Maintenance	<u>30,604</u>
Total	\$117,785

## **Training Section:**

### **Add one (1) Fire Captain instructor position to administer the Technical Rescue Team training program. (page 46)**

The Fire Department maintains a technical rescue team. The rescue team is the only one of its kind in Fresno County. Services provided include confined space rescue, water rescue, trench rescue, high-angle rope rescue, and collapse building rescue. Currently, instruction is provided by hiring instructors on an overtime basis.

In order to meet the increased rescue service requirement for our growing community, the Fire Department will need to enhance the rescue capabilities of the rescue team and provide increased training to first responders through a dedicated instructor. The dedicated instructor would also reduce the overtime incurred to provide the required training.

Personnel	\$ 89,972
Operation & Maintenance	<u>38,255</u>
Total	\$128,227

**Add one (1) Staff Assistant position to provide computer and multimedia support to the Training Section. (page 46)**

A Training staff assistant would provide audio visual programs and training curriculums to be delivered at each fire station. Such programs would better maintain in-service capability and address mandated training requirements.

Personnel	\$42,300
Operation & Maintenance	<u>2,732</u>
Total	\$45,032

**Add one (1) Bureau Chief position to oversee the Training and Repair & Maintenance Sections. (page 47)**

The Bureau Chief position would be added to assume the role of Director of Training and Support Services. This position would oversee an expanded division that includes a complete continuing education program, recruit training, new job orientation, and safety services. The remaining Battalion Chief position would provide continuing education for command officers. Such training would include an advanced incident command system, the emergency operations center, and the maintenance of an incident management team for use during large scale emergencies. Emergency management development is essential in providing all-risk mitigation services including homeland security.

Personnel	\$128,280
Operation & Maintenance	<u>18,035</u>
Total	\$146,315

### **Upgrade drill tower to provide state of the art training to fire personnel. (page 47)**

The current drill tower, built in 1952, lacks modern technology to meet the needs of the Department. Currently, live fire training is done through the use of wood and paper products. The smoke produced poses a health risk to an already unhealthy air quality environment. A clean burning live fire simulator using natural gas and heat resistive panels would be installed in the existing tower to provide a safe burn building that does not pose a health risk to the community.

As discussed on page 39, the Department is investigating moving the training facility to an entirely new site due to the redevelopment plan for Downtown Fresno. If a new site is chosen, these funds would be combined with the construction funds for the new facility.

Capital	\$203,845
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### **Prevention Division:**

#### **Add six (6) additional Inspector positions to perform required inspections based on growth within the community. (page 47)**

At the current rate of growth within our community, we will need to increase staffing in order to keep up with growth and to provide adequate service to existing businesses. State and federal mandates require certain inspections to occur on an annual basis, i.e., hospitals, public assemblies, convalescent homes, institutions, hotels, and apartments. Obviously, with growth, we will have an increase in work loads.

Personnel	\$324,930
Operation & Maintenance	<u>131,160</u>
Total	\$456,090

#### **Add one (1) additional Administrative Clerk II position to maintain inspection files based on growth within the community. (page 47)**

Along with an increase in inspection staff, additional clerical staff becomes necessary. Clerical staff is needed to maintain, update, and file information on all business activity carried on at the Bureau of Fire Prevention.

Personnel	\$32,169
Operation & Maintenance	<u>5,465</u>
Total	\$37,634

## Fiscal Year 2007

### Suppression Program:

#### **Provide annual funding for station repair and maintenance projects. (page 47)**

This is a continuation of the annual funding for station maintenance. Additional explanation was provided on page 45.

Operation & Maintenance	\$112,600
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#### **Increase one-half of the fifteen (15) engine companies to four (4) person minimum staffing per apparatus; thirty (30) positions. (page 47)**

Staffing the remaining engine companies with four persons will bring all of the Department's fire companies to a sufficient number of fire fighting personnel resulting in the benefits described on page 44.

Personnel	\$2,028,932
Operation & Maintenance	<u>195,924</u>
Total	\$2,224,856

#### **Increase apparatus reserve pool by one (1) rapid response unit to maintain a 3:1 ratio of front-line units to reserve units. (page 47)**

Currently the Department has front-line apparatus in service responding to emergency incidents. When these units need maintenance and repair, crews are transferred to reserve apparatus to maintain coverage of response areas.

Since reserve apparatus are maintained in a fully equipped condition ready for assignment, personnel could be recalled to duty in the event of major incidents or disasters quickly. Adding another reserve apparatus would maintain the Department's policy of a 3:1 ratio of reserve apparatus to front-line apparatus.

In addition, there would be a sufficient number of reserve apparatus for a full-alarm assignment when staffed with recalled personnel. The additional engine would be placed into front-line service and an older engine would be placed into the reserve apparatus pool.

Capital	\$168,900
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### Communication Program:

**Add five (5) additional dedicated Fire emergency dispatch personnel positions to handle fire calls on a full-time basis. (page 48)**

These positions will staff additional 24-hour dispatch positions added to handle the anticipated increase in call volume due to the projected growth of the community.

Personnel	\$282,786
Operation & Maintenance	<u>46,166</u>
Total	\$328,952

**Add one (1) Senior Administrative Clerk position to assist the Communications Battalion Chief. (page 48)**

The Communication Center will be staffed by 18 personnel handling more than 40,000 calls each year. The need for administrative support for the Communications Battalion Chief will be met with the addition of this position.

Personnel	\$36,547
Operation & Maintenance	<u>5,630</u>
Total	\$42,177

**EMS Program:**

**Add one (1) Fire Captain position to administer the Emergency Medical Services Training Program. (page 48)**

As this Department grows, so too does the workload and responsibility for the current Operations Liaison Officer. To appropriately manage the EMS Training Program, a dedicated position will need to be funded.

Personnel	\$ 92,688
Operation & Maintenance	<u>39,410</u>
Total	\$132,098

## **Training Section:**

**Add one (1) Senior Administrative Clerk position to assist the current staff with clerical and accounting tasks. (page 48)**

With the addition of a Bureau Chief to head the Training and Support Services Division, a Senior Administrative Clerk will be needed to ensure efficiency within the Division.

Personnel	\$36,547
Operation & Maintenance	<u>5,630</u>
Total	\$42,177

**Fiscal Years 2006 - 2007 SUBTOTAL                      \$12,126,316**

## **FISCAL YEAR 2008**

### **Suppression Program:**

**Replace one (1) aerial ladder truck which is beyond its front-line useful life. (page 48)**

The useful lives of the Department's apparatus were described on page 27. To comply with the program, an aerial ladder truck must be replaced.

Capital	\$812,000
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**Provide annual funding for station repair and maintenance projects. (page 48)**

This is a continuation of the annual funding for station maintenance. Additional explanation was provided on page 45.

Operation & Maintenance	\$116,000
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## **Communication Program:**

**Purchase fifty (50) portable radios to be used during disasters or terrorist incidents. Radios will be maintained at the Department Operations Center. (page 49)**

This purchase will provide a cache of portable radios to be used during disasters or terrorist incidents and should to be stored at the Communication Center. They will be used by the Emergency Operations Center (EOC) and Department Operation Center (DOC) during activation of those centers. In addition, in the event of multiple or long-term events, the additional radios would complement the Communication Vehicle cache of portable radios.

Operation & Maintenance	\$52,200
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## **Training Section:**

**Add one (1) Fire Captain instructor position to provide training to existing personnel in the Emergency Medical Services discipline. (page 49)**

With the expanded emergency service delivery anticipated, a full-time emergency medical services instructor (captain) will be needed to assure mandated training hours are provided in the areas of emergency medical technician, semiautomatic defibrillation, and cardiopulmonary resuscitation.

Personnel	\$ 95,487
Operation & Maintenance	<u>40,600</u>
Total	\$136,087

## **FISCAL YEAR 2009**

### **Administration Division:**

**Add one (1) Assistant Fire Chief position to provide management support to Fire Chief. (page 49)**

Currently, the Department has one Fire Chief position and two Bureau Chief positions. The Bureau Chief positions oversee the Suppression and Prevention Bureaus. Comparing Fresno to its peer cities which average 5.3 upper management Chief positions; Fresno is understaffed at three positions. In addition, with the growth in size and complexity of the Department by fiscal year 2009 an Assistant Fire Chief position will be needed to provide additional management support to the Fire Chief.

Personnel	\$146,979
Operation & Maintenance	<u>19,718</u>
Total	\$166,697

## **Suppression Program:**

### **Stations 16 and 18 - Construct new fire stations in West and Southwest Fresno respectively. (page 49)**

With the anticipated growth of the city under the 2025 General Plan, Station 16 will need to be relocated from the existing temporary station to a permanent location selected based on the 4-minute response time standard.

Station 18 is new station to provide fire protection coverage to growing Southwest Fresno area. Its construction is again anticipated based on the growth projections in the 2025 General Plan.

Both stations will assist in maintaining compliance with OSHA's two-in/two-out Federal Regulation for firefighter safety and provide an engine company within 1.5 miles of every built-up area meeting Insurance Services Office (ISO) standards.

Capital	\$7,170,000
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### **Replace one (1) fire engine which is beyond its front-line useful life. (page 49)**

The useful lives of the Department's apparatus were described on page 27. To comply with the program, one engine must be replaced.

Capital	\$478,000
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### **Provide annual funding for station repair and maintenance projects. (page 49)**

This is a continuation of the annual funding for station maintenance. Additional explanation was provided on page 45.

Operation & Maintenance	\$119,500
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## **Hazmat Program:**

### **Add one (1) additional Fire Captain position to perform Hazmat Program administrative duties. (page 49)**

The Department recognizes the growth of the city of Fresno in both size and population. As the business community expands, the potential for hazardous materials releases will also increase. In response to this growth, the Department must grow proportionally to accommodate the increased needs of the community.

One of the duties of the Hazmat team is to administer the Hazardous Materials Permit Program, which requires businesses that store, use or handle hazardous materials to obtain permits. The program generates thousands of applications and invoices annually.

With the demand for emergency and non emergency requests for service from the Hazmat team to address antiterrorism, decontamination, and hazardous materials issues, a 40-hour Captain is needed to assist in the management of the daily operations of the Hazmat Program.

Personnel	\$ 98,368
Operation & Maintenance	<u>5,975</u>
Total	\$104,343

### **Add one (1) Senior Administrative Clerk position to provide assistance to the Hazmat Program staff. (page 50)**

In addition to the extra Captain position identified above, another Senior Administrative Clerk is needed to provide clerical support to the Hazmat Program at the required anticipated level of service.

Personnel	\$38,786
Operation & Maintenance	<u>5,975</u>
Total	\$44,761

## **Training Section:**

**Add one (1) Fire Captain instructor position to provide multi-company drill training to existing personnel. (page 50)**

A Training Captain will be added to the Training staff to augment the continuing education program. This position will assist with multi-company drills which are provided monthly. Such training is needed to maintain firefighter skill levels and meet mandated continuing education requirements. This position will especially be needed due to the growing workforce required due to population growth.

Personnel	\$ 98,368
Operation & Maintenance	<u>41,825</u>
Total	\$140,193

## **Prevention Division:**

**Add five (5) additional Inspector positions to perform required inspections based on growth within the community. (page 50)**

Community growth will require adequate staffing of Fire Prevention Inspectors. As the city grows, both in area and population, the Fire Department will need to expand to accommodate our community.

Personnel	\$308,678
Operation & Maintenance	<u>119,500</u>
Total	\$428,178

**Add one (1) 40-hour Arson Investigator position to complete investigations based on growth within the community. (page 50)**

Community growth will require an additional battalion or division (i.e., a third battalion area). Along with this growth, the need for additional staffing in fire investigation will be necessary.

Personnel	\$ 90,214
Operation & Maintenance	<u>35,850</u>
Total	\$126,064

**Add three (3) Senior Administrative Clerk positions to provide assistance to the Prevention Division staff based on growth within the community. (page 50)**

To adequately provide basic office support (i.e., customer relations, billing, and to maintain Prevention files) additional clerical support will be required. Senior Administrative Clerks will be required to accommodate the administrative needs of the Fire Prevention Bureau. Scheduling vacations, work related duties, and other assignments as required will be handled by senior administrative personnel.

Personnel	\$116,359
Operation & Maintenance	<u>17,925</u>
Total	\$134,284

**Add two (2) Administrative Clerk II positions to provide assistance to the Prevention Division staff based on growth within the community. (page 51)**

Additional clerical support will be required to accommodate the administrative needs of the Bureau. Updating and maintenance of business job address files will be accomplished through Administrative Clerks.

Personnel	\$70,341
Operation & Maintenance	<u>11,950</u>
Total	\$82,291

**Fiscal Years 2008 - 2009 SUBTOTAL \$10,110,598**

**FISCAL YEAR 2010**

**Administration Division:**

**Add one (1) additional Computer Systems Technician (CST) position to maintain Department computers based on growth of the Department. (page 51)**

The addition of a CST at this point in time, reflects the operational needs of the organization due to the growth of the Department.

Personnel	\$38,143
Operation & Maintenance	<u>26,467</u>
Total	\$64,610

**Suppression Program:**

**Add an additional aerial ladder truck company to improve response time and company reliability in Northeast Fresno; sixteen (16) positions (formerly Station 13). (page 51)**

The addition of a truck company will serve the high growth North area and increase the total number of truck companies serving the community to seven. To keep pace with the projected growth of the city the recommended number of truck companies is one ladder/service company within 2.5 miles of every built-up area of the city under ISO item No. 561. The specific station assignment will be determined when the company is established.

Personnel	\$1,368,557
Operation & Maintenance	114,236
Capital	<u>861,700</u>
Total	\$2,344,493

**Station 18 - Staff and equip new station with one engine company in Southwest Fresno; sixteen (16) positions. (page 51)**

These positions along with an engine will staff the new fire station by providing 24-hour emergency response to meet the needs of the area.

Personnel	\$1,368,557
Operation & Maintenance	193,512
Capital	<u>492,400</u>
Total	\$2,054,469

**Replace five (5) fire engines which are beyond their front-line useful lives. (page 51)**

The useful lives of the Department's apparatus were described on page 27. To comply with the program, five engines must be replaced.

Capital	\$2,462,000
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**Replace six (6) rapid response units which are beyond their front-line useful lives. (page 51)**

The useful lives of the Department's apparatus were described on page 27. To comply with the program, six rapid response units must be replaced.

Capital	\$960,180
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**Increase apparatus reserve pool by one (1) aerial ladder truck to maintain a 3:1 ratio of front-line units to reserve units. (page 52)**

Reserve apparatus are maintained in a fully equipped condition ready for assignment with personnel recalled to duty in the event of major incidents or disasters. Adding another reserve apparatus would maintain the Department's policy of a 3:1 ratio of reserve apparatus to front-line apparatus. The

additional truck would be placed into front-line service and an older truck would be placed into the reserve apparatus pool.

Capital	\$861,700
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**Provide annual funding for station repair and maintenance projects. (page 52)**

This is a continuation of the annual funding for station maintenance. Additional explanation was provided on page 45.

Operation & Maintenance	\$123,100
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**Communication Program:**

**Install fiber optic cable connections in fire stations to enhance communication, data transmission and provide two-way audio/video training. (page 52)**

Installing fiber optic cable will improve the speed of dispatch and other station communication systems. It will enhance data transmission and provide two-way audio/video training. This will keep fire companies from having to attend training sessions Downtown, keeping them in their districts more often and reducing emergency response times.

Capital	To Be Determined
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**EMS Program:**

**Replace fourteen (14) outdated Defibrillator machines with current County of Fresno approved model. (page 52)**

As the Department adds new apparatus to its fleet and defibrillators meet their reasonable work-life expectancy (5-years), these units will need to be replaced.

Operation & Maintenance	\$60,319
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**TRT Program:**

**Establish a six (6) person rescue company to respond to community needs; twenty-four (24) positions. (page 52)**

This second rescue company is needed based on the anticipated growth of the community. The services and benefits were discussed on page 46.

Personnel	\$1,960,058
Operation & Maintenance	232,905
Capital	<u>492,400</u>
Total	\$2,685,363

## Training Section:

**Add two (2) additional Training staff positions to provide training to existing personnel in safety and driving disciplines. (page 52)**

Due to growth in the workforce a Training Captain would be added to assist the existing Safety Officer in managing the Injury Illness Prevention Program and the Infection Control Program. These officers will also serve as Safety Officers during large scale emergencies.

Due to growth of the workforce a Firefighter Specialist would be added to assist in the Drivers Training Program. This will assure orientation, career development, and ongoing training is provided to fire apparatus driver operators. Such action will reduce risk to the City of Fresno.

Personnel	\$194,264
Operation & Maintenance	<u>49,240</u>
Total	\$243,504

**Fiscal Year 2010 SUBTOTAL \$11,859,738**

## FISCAL YEARS 2006 - 2010 TOTALS

Personnel	\$14,974,751
Operation & Maintenance	2,847,176
Capital	<u>16,274,725</u>
SUBTOTAL	\$34,096,652

# Department Needs By Division/Program

## Fiscal Years 2011 - 2015

### FISCAL YEAR 2011

#### Suppression Program:

##### **Provide annual funding for station repair and maintenance projects. (page 53)**

This is a continuation of the annual funding for station maintenance. Additional explanation was provided on page 45.

Operation & Maintenance	\$126,800
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#### EMS Program:

##### **Replace eleven (11) outdated Defibrillator machines with current County of Fresno approved model. (page 53)**

The defibrillators have met their reasonable work-life expectancy of five years as described on page 45.

Operation & Maintenance	\$48,818
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### FISCAL YEAR 2012

#### Suppression Program:

##### **Purchase one (1) additional water tender to respond to community needs. (page 53)**

The Department has maintained two water tenders for rapid deployment in areas lacking adequate water supply such as wild land and agricultural areas. An additional water tender will be needed as the city grows to maintain minimum water flow in these areas which are void of fire hydrants within acceptable response times. The tenders will provide rapid resupply of water for engines and rapid response units meeting NFPA 1142, and the Fire Chiefs Handbook, pages 197-199.

Capital	\$326,500
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##### **Stations 17 - Construct new fire station in Northwest Fresno. (page 53)**

In order to maintain adequate fire coverage across the city and allow the growth projected in the 2025 General Plan to take place, Station 17 must be built. This new station will provide fire protection coverage to the Northwest Fresno area in accordance with OSHA, NFPA and ISO standards.

Capital	\$3,918,000
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**Replace one (1) aerial ladder truck which is beyond its front-line useful life. (page 53)**

The useful lives of the Department's apparatus were described on page 27. To comply with the program, one aerial ladder truck must be replaced.

Capital	\$914,200
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**Provide annual funding for station repair and maintenance projects. (page 53)**

This is a continuation of the annual funding for station maintenance. Additional explanation was provided on page 45.

Operation & Maintenance	\$130,600
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**Communication Program:**

**Add seven (7) additional dedicated Fire emergency dispatch personnel positions to handle fire calls on a full-time basis. (page 53)**

These positions will staff additional 24-hour dispatch positions added to handle the anticipated increase in call volume due to the projected growth of the community.

Personnel	\$543,002
Operation & Maintenance	<u>27,426</u>
Total	\$570,428

<b>Fiscal Years 2011 - 2012 SUBTOTAL</b>	<b>\$6,035,346</b>
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**FISCAL YEAR 2013**



## **Suppression Program:**

### **Station 17 - Staff and equip new station with one engine company in Northwest Fresno; sixteen (16) positions. (page 54)**

These positions along with an engine will staff the new fire station by providing 24-hour emergency response to meet the needs of the area.

Personnel	\$1,495,295
Operation & Maintenance	211,434
Capital	<u>538,000</u>
Total	\$2,244,729

### **Replace 200 Self Contained Breathing Apparatus (SCBA). Units are approaching the end of their useful lives. (page 54)**

Self Contained Breathing Apparatus (SCBA) provide respiratory protection and are mandatory for use in environments that contain smoke or other hazardous substances (i.e., structure fires) that may be immediately dangerous to life and health. They are a component of Personal Protective Equipment and have a useful life of 15 years. Each unit must be tested periodically and will not be supported by the manufacturer beyond its useful life. The Department's current units were purchased in 2001. Replacement of the units should occur just before the end of their useful life to ensure that the Department has units that still comply with regulatory requirements at all times.

Operation & Maintenance	\$591,800
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### **Provide annual funding for station repair and maintenance projects. (page 54)**

This is a continuation of the annual funding for station maintenance. Additional explanation was provided on page 45.

Operation & Maintenance	\$134,500
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## **Communication Program:**

### **Replace portable radios with current technology and provide a radio to each sworn staff in the Suppression and Prevention divisions. (page 54)**

The portable radios will be reaching their 12-year life expectancy and need to be updated with current technology. This purchase will also provide a radio to each sworn Department member in the Suppression and Prevention Divisions.

Operation & Maintenance	\$726,300
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## **FISCAL YEAR 2014**

## **Suppression Program:**

### **Replace two (2) fire engines which are beyond their front-line useful lives. (page 54)**

The useful lives of the Department's apparatus were described on page 27. To comply with the program, two engines must be replaced.

Capital	\$1,108,000
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### **Replace two (2) aerial ladder trucks which are beyond their front-line useful lives. (page 54)**

The useful lives of the Department's apparatus were described on page 27. To comply with the program, two aerial ladder trucks must be replaced.

Capital	\$1,939,000
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### **Provide annual funding for station repair and maintenance projects. (page 54)**

This is a continuation of the annual funding for station maintenance. Additional explanation was provided on page 45.

Operation & Maintenance	\$138,500
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## **Prevention Program:**

### **Add two (2) Fire Inspector I positions based on growth within the community. (page 54)**

With the projected growth of not only population, but business as well, the Prevention Division will need to add Fire Inspectors to keep up with community service needs. Timely inspections of existing businesses, combined with potential business and other facility growth, will require us to incorporate additional staffing.

Personnel	\$123,945
Operation & Maintenance	<u>55,400</u>
Total	\$179,345

<b>Fiscal Years 2013 - 2014 SUBTOTAL</b>	<b>\$7,062,174</b>
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## **FISCAL YEAR 2015**

## **Suppression Program:**

### **Stations 19 - Construct new fire station in South Fresno. (page 55)**

As growth occurs in the city as projected in the 2025 General Plan, another fire station, Station 19, must be built. This new station will provide fire protection coverage to South Fresno in accordance with OSHA, NFPA and ISO standards.

Capital	\$4,278,000
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### **Provide annual funding for station repair and maintenance projects. (page 55)**

This is a continuation of the annual funding for station maintenance. Additional explanation was provided on page 45.

Operation & Maintenance	\$142,600
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**Replace six (6) rapid response units which are beyond their front-line useful lives. (page 55)**

The useful lives of the Department's apparatus were described on page 27. To comply with the program, six rapid response units must be replaced.

Capital	\$1,112,280
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**Replace one (1) rapid response reserve unit which is beyond its useful life. (page 55)**

The useful lives of the Department's apparatus were described on page 27. To comply with the program, one rapid response reserve unit must be replaced.

Capital	\$185,380
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**EMS Program:**

**Replace sixteen (16) outdated Defibrillator machines with current County of Fresno approved model. (page 55)**

The defibrillators have met their reasonable work-life expectancy of five years as described on page 45.

Operation & Maintenance	\$79,856
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**Hazmat Program:**

**Replace a Hazmat decontamination trailer which is beyond its useful life. (page 55)**

In order to maintain an Apparatus Replacement Program, the Hazmat decontamination trailer which has reached its useful service life of 15 years as a front-line vehicle needs to be replaced. Technology has changed and the vehicle should be upgraded to address the community's current needs.

Capital	\$618,000
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<b>Fiscal Year 2015 SUBTOTAL</b>	<b>\$6,416,116</b>
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**FISCAL YEARS 2011 - 2015 TOTALS**

Personnel	\$ 2,162,242
Operation & Maintenance	2,414,034
Capital	<u>14,937,360</u>
SUBTOTAL	\$19,513,636

## Department Needs By Division/Program

### Fiscal Years 2016 - 2020

#### FISCAL YEAR 2016

##### Suppression Program:

**Station 19 - Staff and equip new station with one engine company and one aerial ladder truck company in South Fresno; thirty-two (32) positions. (page 56)**

These positions along with an engine and an aerial ladder truck (two companies) will staff the new fire station by providing 24-hour emergency response to meet the needs of the area. The aerial ladder truck will be an additional truck serving the South Fresno area and increase the number of truck companies to eight.

Personnel	\$3,264,078
Operation & Maintenance	348,210
Capital	<u>1,614,800</u>
Total	\$5,227,088

**Replace ten (10) fire engines which are beyond their front-line useful lives. (page 56)**

The useful lives of the Department's apparatus were described on page 27. To comply with the program, ten engines must be replaced.

Capital	\$5,872,000
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**Increase apparatus reserve pool by one (1) fire engine to maintain a 3:1 ratio of front-line units to reserve units. (page 56)**

Reserve apparatus are maintained in a fully equipped condition ready for assignment with personnel recalled to duty in the event of major incidents or disasters. Adding another reserve apparatus would maintain the Department's policy of a 3:1 ratio of reserve apparatus to front-line apparatus. The additional engine would be placed into front-line service and an older engine would be placed into the reserve apparatus pool.

Capital	\$587,200
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**Provide annual funding for station repair and maintenance projects. (page 56)**

This is a continuation of the annual funding for station maintenance. Additional explanation was provided on page 45.

Operation & Maintenance	\$146,800
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### **EMS Program:**

#### **Replace eleven (11) outdated Defibrillator machines with current County of Fresno approved model. (page 56)**

The defibrillators have met their reasonable work-life expectancy of five years as described on page 45.

Operation & Maintenance	\$54,901
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#### **Replace medical equipment required to meet County of Fresno standards for providing medical services in the county. (page 56)**

As the Fresno County EMS Division updates and/or adds to its standard inventory on first responder units, the Department must be financially prepared to meet the demands.

Operation & Maintenance	\$21,390
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### **Repair & Maint. Section:**

#### **Add two (2) Fire Equipment Mechanic I positions to perform repairs and maintenance on fire apparatus. (page 56)**

The Repair and Maintenance Section will need to increase staff by two additional mechanics to support the plans for additional stations and apparatus in the next ten years. This will enable support staff to meet the repair and maintenance standards required for emergency vehicles.

With the anticipated increase in fire apparatus and specialty equipment, two additional fire equipment mechanics will be required to provide mandated maintenance services on apparatus. In

addition, the support unit used during large-scale emergencies will be enhanced to provide logistical support. The result will assure reliable emergency response to the community.

Personnel	\$117,092
Operation & Maintenance	<u>41,104</u>
Total	\$158,196

**Purchase one (1) additional service truck to provide repairs to apparatus in the field. (page 57)**

With the addition of the two additional mechanics another service truck will be needed to support the plans for additional stations and apparatus in the next ten years. This will enable support staff to meet the repair and maintenance standards required for emergency vehicles.

Operation & Maintenance	\$132,120
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## FISCAL YEAR 2017

### Suppression Program:

**Replace one (1) fire engine which is beyond its front-line useful life. (page 57)**

The useful lives of the Department's apparatus were described on page 27. To comply with the program, one engine must be replaced.

Capital	\$604,400
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**Provide annual funding for station repair and maintenance projects. (page 57)**

This is a continuation of the annual funding for station maintenance. Additional explanation was provided on page 45.

Operation & Maintenance	\$151,100
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**Replace one (1) rapid response reserve unit which is beyond its useful life. (page 57)**

The useful lives of the Department's apparatus were described on page 27. To comply with the program, one rapid response reserve unit must be replaced.

Capital	\$196,430
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<b>Fiscal Years 2016 - 2017 SUBTOTAL</b>	<b>\$13,151,625</b>
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## **FISCAL YEAR 2018**

### **Suppression Program:**

**Station 20 - Construct new fire station in Southeast Fresno. (page 57)**

As growth occurs in the city as projected in the 2025 General Plan, another fire station, Station 20, must be built in Southeast Fresno to provide fire protection coverage to the area in accordance with OSHA, NFPA and ISO standards.

Capital	\$4,665,000
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**Provide annual funding for station repair and maintenance projects. (page 57)**

This is a continuation of the annual funding for station maintenance. Additional explanation was provided on page 45.

Operation & Maintenance	\$155,500
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## **FISCAL YEAR 2019**

### **Suppression Program:**

**Station 20 - Staff and equip new station with one engine company in Southeast Fresno; sixteen (16) positions. (page 57)**

These positions along with an engine will staff the new fire station by providing 24-hour emergency response to meet the needs of the area.

Personnel	\$1,778,789
Operation & Maintenance	251,520
Capital	<u>640,000</u>
Total	\$2,670,309

**Replace one (1) aerial ladder truck which is beyond its front-line useful life. (page 57)**

The useful lives of the Department's apparatus were described on page 27. To comply with the program, one aerial ladder truck must be replaced.

Capital	\$1,120,000
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**Provide annual funding for station repair and maintenance projects. (page 57)**

This is a continuation of the annual funding for station maintenance. Additional explanation was provided on page 45.

Operation & Maintenance	\$160,000
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**Prevention Program:**

**Add two (2) Fire Inspector I positions based on growth within the community. (page 58)**

With the projected growth of not only population, but business as well, the Prevention Division will need to add Fire Inspectors to keep up with community service needs. Timely inspections of existing businesses, combined with potential business and other facility growth, will require us to incorporate additional staffing.

Personnel	\$143,186
Operation & Maintenance	<u>64,000</u>
Total	\$207,186

**Fiscal Years 2018 - 2019 SUBTOTAL** **\$8,977,995**

## FISCAL YEAR 2020

### **Suppression Program:**

#### **Replace two (2) aerial ladder trucks which are beyond their front-line useful lives. (page 58)**

The useful lives of the Department's apparatus were described on page 27. To comply with the program, two aerial ladder trucks must be replaced.

Capital	\$2,304,400
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#### **Provide annual funding for station repair and maintenance projects. (page 58)**

This is a continuation of the annual funding for station maintenance. Additional explanation was provided on page 45.

Operation & Maintenance	\$164,600
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#### **Replace six (6) rapid response units which are beyond their front-line useful lives. (page 58)**

The useful lives of the Department's apparatus were described on page 27. To comply with the program, six rapid response units must be replaced.

Capital	\$1,283,880
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### **EMS Program:**

#### **Replace seventeen (17) outdated Defibrillator machines with current County of Fresno approved model. (page 58)**

The defibrillators have met their reasonable work-life expectancy of five years as described on page 45.

Operation & Maintenance	\$97,937
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## **Hazmat Program:**

### **Replace one (1) Hazmat apparatus which is beyond its front-line useful life. (page 58)**

The useful lives of the Department's apparatus were described on page 27. To comply with the program, one Hazmat unit must be replaced.

Capital	\$823,000
<b>Fiscal Year 2020 SUBTOTAL</b>	<b>\$4,673,817</b>

### **FISCAL YEARS 2016 - 2020 TOTALS**

Personnel	\$ 5,303,145
Operation & Maintenance	1,789,182
Capital	<u>19,711,110</u>
SUBTOTAL	<b>\$26,803,437</b>

# Department Needs By Division/Program

## Fiscal Years 2021 - 2025

### FISCAL YEAR 2021

#### Suppression Program:

##### Replace one (1) aerial ladder truck which is beyond its front-line useful life. (page 59)

The useful lives of the Department's apparatus were described on page 27. To comply with the program, one aerial ladder truck must be replaced.

Capital	\$1,185,100
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##### Provide annual funding for station repair and maintenance projects. (page 59)

This is a continuation of the annual funding for station maintenance. Additional explanation was provided on page 45.

Operation & Maintenance	\$169,300
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#### EMS Program:

##### Replace thirteen (13) outdated Defibrillator machines with current County of Fresno approved model. (page 59)

The defibrillators have met their reasonable work-life expectancy of five years as described on page 45.

Operation & Maintenance	\$77,032
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### **Hazmat Team Program:**

#### **Replace one (1) Hazmat apparatus which is beyond its front-line useful life. (page 59)**

The useful lives of the Department's apparatus were described on page 27. To comply with the program, one Hazmat unit must be replaced.

Capital	\$846,500
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### **FISCAL YEAR 2022**

### **Suppression Program:**

#### **Replace one (1) fire engine which is beyond its front-line useful life. (page 59)**

The useful lives of the Department's apparatus were described on page 27. To comply with the program, one engine must be replaced.

Capital	\$869,200
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#### **Provide annual funding for station repair and maintenance projects. (page 59)**

This is a continuation of the annual funding for station maintenance. Additional explanation was provided on page 45.

Operation & Maintenance	\$217,300
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<b>Fiscal Years 2021 - 2022 SUBTOTAL</b>	<b>\$3,364,432</b>
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## FISCAL YEAR 2023

### Suppression Program:

#### Replace one (1) aerial ladder truck which is beyond its front-line useful life. (page 59)

The useful lives of the Department's apparatus were described on page 27. To comply with the program, one aerial ladder truck must be replaced.

Capital	\$1,555,400
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#### Provide annual funding for station repair and maintenance projects. (page 59)

This is a continuation of the annual funding for station maintenance. Additional explanation was provided on page 45.

Operation & Maintenance	\$222,200
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## FISCAL YEAR 2024

### Suppression Program:

#### Provide annual funding for station repair and maintenance projects. (page 59)

This is a continuation of the annual funding for station maintenance. Additional explanation was provided on page 45.

Operation & Maintenance	\$227,200
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### Prevention Program:

#### Add two (2) Fire Inspector I positions based on growth within the community. (page 60)

The projected growth of Fresno is set at approximately 800,000 to 900,000 by this time. Fire Prevention will be, as it is today, a way to ensure safe work places, shopping areas, and housing for the future. In order to accommodate and serve the population adequately, the Fire Prevention Bureau will need to grow accordingly.

Personnel	\$203,323
Operation & Maintenance	<u>90,880</u>
Total	\$294,203

**Fiscal Years 2023 - 2024 SUBTOTAL** **\$2,299,003**

## **FISCAL YEAR 2025**

### **Suppression Program:**

#### **Replace one (1) aerial ladder truck which is beyond its front-line useful life. (page 60)**

The useful lives of the Department's apparatus were described on page 27. To comply with the program, one aerial ladder truck must be replaced.

Capital	\$1,626,100
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#### **Replace one (1) fire engine which is beyond its front-line useful life. (page 60)**

The useful lives of the Department's apparatus were described on page 27. To comply with the program, one engine must be replaced.

Capital	\$929,200
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#### **Replace six (6) rapid response units which are beyond their front-line useful lives. (page 60)**

The useful lives of the Department's apparatus were described on page 27. To comply with the program, six rapid response units must be replaced.

Capital	\$1,811,940
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**Replace one (1) rapid response reserve unit which is beyond its useful life. (page 60)**

The useful lives of the Department's apparatus were described on page 27. To comply with the program, one rapid response reserve unit must be replaced.

Capital	\$301,990
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**Provide annual funding for station repair and maintenance projects. (page 60)**

This is a continuation of the annual funding for station maintenance. Additional explanation was provided on page 45.

Operation & Maintenance	\$232,300
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**EMS Program:**

**Replace eighteen (18) outdated Defibrillator machines with current County of Fresno approved model. (page 60)**

The defibrillators have met their reasonable work-life expectancy of five years as described on page 45.

Operation & Maintenance	\$143,136
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<b>Fiscal Year 2025 SUBTOTAL</b>	<b>\$5,044,666</b>
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**FISCAL YEARS 2020 - 2025 SUBTOTAL**

Personnel	\$ 203,323
Operation & Maintenance	1,379,348
Capital	<u>9,125,430</u>
<b>SUBTOTAL</b>	<b>\$10,708,101</b>

<b>GRAND TOTALS:</b>	<b>\$134,537,636</b>
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## APPARATUS REPLACEMENT

The following table provides detail of the vehicles used in fire fighting activities as either front-line or reserve apparatus, their age, mileage, current replacement cost, and the year they should be replaced based on the Department's present Apparatus Replacement Program.

### Apparatus Replacement Schedule

Engine Cost	400,000	17 Years	(FL)	Front Line
Truck Cost	700,000	20 Years	(RE)	Reserve Engine
Water Tender Cost	250,000	20 Years	(OS)	Out of Service
Hazmat Cost	350,000	20 Years		
Light Vehicle Cost	25,000	10 Years		

Company Number	Service Type	Make	Model Year	Mileage	Year To Be Placed In Reserve	Year To Be Replaced	Vehicle Cost
RESCUE 11	FL	CHEVROLET	1990	114,799	N/A	2000	25,000
COMM 1	FL	FORD	1976	90,956	N/A	1986	65,000
E01	FL	BECK	1991	125,938	2003	2008	400,000
E02	FL	BECK	1989	35,366	2001	2006	400,000
E03	FL	AMER. LAFR.	1999	79,129	2011	2016	400,000
E04	FL	AMER. LAFR.	1999	50,294	2011	2016	400,000
E05	FL	BECK	1992	145,371	2004	2009	400,000
E06	FL	FERRARA	1997	69,869	2009	2014	400,000
E07	FL	BECK	1991	113,106	2003	2008	400,000
E08	FL	AMER. LAFR.	1999	67,836	2011	2016	400,000
E09	FL	FERRARA	2002	19,743	2014	2019	400,000
E10	FL	AMER. LAFR.	1999	74,839	2011	2016	400,000
E11	FL	AMER. LAFR.	1999	71,241	2011	2016	400,000
E12	FL	BECK	1992	134,439	2004	2009	400,000
E13	FL	BECK	1991	100,083	2003	2008	400,000
E14	FL	BECK	1991	93,112	2003	2008	400,000
E16	FL	FERRARA	2002	10,183	2014	2019	400,000
E21	FL	BECK	1989	113,427	2001	2006	400,000
E202	RE	AMER. LAFR.	1978	112,783	1990	1995	400,000
E203	RE	AMER. LAFR.	1978	134,457	1990	1995	400,000
E204	RE	AMER. EAGLE	1983	133,259	1995	2000	400,000
E208	RE	AMER. LAFR.	1978	23,393	1990	1995	400,000

Year To      Year

Company Number	Service Type	Make	Model Year	Mileage	Be Placed In Reserve	To Be Replaced	Vehicle Cost
E212	RE	AMER. LAFR.	1978	53,733	1990	1995	400,000
HM14	FL	CHEVROLET	1986	61553	2001	2006	350,000
DECON TRAILER	FL	TRAILER	2000	N/A	2015	2020	350,000
T01	FL	AMER. LAFR.	1999	40079	2014	2019	700,000
T03	FL	KME	1991	42516	2006	2011	700,000
T09	FL	FERRARA	1995	78059	2010	2015	700,000
T11	FL	PIERCE	2003	2669	2018	2023	700,000
T14	FL	AMER. LAFR.	1999	37363	2014	2019	700,000
T203	RE	LTI	1985	83035	2000	2005	700,000
T210	OS	GRUMMAN	1984	96391	1999	2004	700,000
WT03	OS	PETER	1956	59246	1971	1976	250,000
WT13	FL	GMC	1986	11343	2001	2006	250,000
TOTAL COST							14,785,000